Well Name Ohio Oil Company 7 South Rge 21 East, Chapman #5 Structure Dry Creek C SW SW / 660 N/S Carbon State 660 E/W Montana Surface Elevation and Formation Lance, Landowner Chapman, L.P. Lessee Ohio Oil Company. Drilling Company Chio Oil Company, Representative in Charge Contractor or Driller S: Ford, Garelpy. dibson, King, Drum. Date Location Date Spudded 5-7-31 U.S.G.S. shows 1.P. Oil as 800 bbls. Gas 12 Million CF. Sands: 1st. Frontier 4375-4424, Not tes ted. LOG IN FILE 2nd Frontier 4690-4794 Dry Dakota 5570-5585 Oil & Gas Lakota 5788-5830 Water, Sundance 5841-6185, Dry, Rotary tools used from 839 to

6219, put to producing,

Total Depth

Gas

barrels oil, gas pressure 400#, T.D. 6219, P.B. to 5616'. Casing Record: 438'9" of 151, 70# 832'1" of 13-3/8", 61# 4697' of 8-5/8", 36#, 996' of 6-5/8", 26#. FROM SUNDRY NOTICES dated 3-4-48. NOT OF INT. TO SHOOT. APP: 3-5-48 FCP: After pulling rods and working with well for better than a month was unable to make well pump, so we pulled tubing and had Lane Wells make a log of well. We now would like permission to reperforate the liner in this well, it is all ready perforated from 5537 to 5615. The following will be the perforations: 5467 to 5473 - 18 shots ---5480 to 5485 15 shots 5490 to 5497 21 shots 5535 to 5560 75 shots /s/ I.J. Hares, Supt, Ohio Oil Company 2-5-32, I.P. from log, 886 **PLAINTIFFS'** Formation **EXHIBIT** 2-20-31 6219-5616 PB Sundance P265 at Water 1½ MCF at 5812:

011886- FCP

Completed

March 4th: Ran radio activity survey by Lane Wells to 5609'
March 5th - Shot well by Land Wells 5467 to 5473, 18 shots,
5480 to 5485, 15 shots,
5490 to 5497, 21 shots,
5535 to 5560, 75 shots.

Produced March 9th,
115 bbls Mar. 20 89 bbls
10 16 " 21 42"

26 " . 68 "

FROM SUNDRY NOTICES. dated 6-24-48 App. 6-26-48 FCP:

۱٦٠

12

31 " 13 24 L211 52 " 25 14 26 21 " 42 " 27 21 " 16 21 " 31 " 28 down 29 31 " 18 21 " 42 bbls 19 30 The shooting of well did not increase the production, it was the

22

23

42 II

31 "

The shooting of well did not increase the production, it was the intention it would be shooting, figuring we might have some production shut off back of casing.

/s/ I. J. Hares.

		Dry	Creek	
File	No	3-5		

P-0014236

OIL OR GAS WELL LOG AND WELL HISTORY COMPILED FROM RECORDS OF THE OIL CONSERVATION BOARD OF THE STATE OF MONTANA

Dry Creek						
				Carbon		Montana
						Montana
Fownship 7 S	outh	Range 21 East	_ м.м.	C SW SW	Sec2	
Landowner: C	hapman, L.	Ė.		660 E/W	1.0	
					Drillers Ford, Gare	
Lessee or Oper	ator: Unio	Oil Company.			Drum, King	
Drilling Contr	actor: Oh	io Oil Company.				
Tract Well Num	ber: #	Name:	Oil Co hapman	#5	_Elevation:_	4267
Surface Format	ion: La	nce	Well	L Bottom Fo	rmation	Sundance
5-7-31		12-20-31			6219 - 561	.6 PB
(Date Com	menced)	(Date Dri	lling Ce	eased)	Total De	pth)
D1	000 bble			Statua	12-1-44 Pro	ducing.
Result: Oil,	900 pprs			Boacus.		
1½ MC	F Gas.					
		Shelby, Mont				
From	То	Total Feet	Form	ation and N	Votes	
		11 28324				
						,

CHANGE OF OPERATOR RECORD

Chapman (1-0332-1) 5 7S, 21E, Sec. 2: SW SW API # 009-60035

TO: North American Resources FROM: Montana Power Company EFFECTIVE DATE: November 3, 1982

TO: Luff Exploration Company FROM: North American Resources EFFECTIVE DATE: June 14, 1985

TO: Montana Power Company FROM: Luff Exploration Company EFFECTIVE DATE: October 20, 1986

TO: Montana Power Gas Company
(Opr. #211, Bond #M1)
FROM: Montana Power Company
(Opr. #5160, Bond #M1)
EFFECTIVE DATE: March 26, 1999

TO: PanCanadian Energy Resources, Inc. (Name Change Rider 1-25-02)

TO: Saga Petroleum LLC
(Opr. #466, Opr. M1)
FROM: EnCana Oil & Gas (USA) Inc.
(Opr. #5385, Bond M2)
EFFECTIVE DATE: October 12, 2005

1	11.00		-	-	Lee Dennis, Chairman	Dan Boyle, Commissioner	L.
-			-	m	13	OIL AND GAS WELL DIV	ISION
L				100	13	THE STATE OF THE S	CC
-					LO	G OF OIL OR GAS	s W

	S	OTT OF	ONEDANIA			POTD CED	MONE	n A at A		
	7 7	CHAPM	OMPANY		Addre	BRIDGER	, MON	PANA		NONTHANA
essor or Tr				7	Field.	Merid	ian	State	County	MONTANA
ocation	660 ft.	N. } of	S	Line and	660 _f	t. { E. } of	W	Line of	,	Elevation 4267 to sea level)
										far as can be deter-
ined from			SABER			OF	ner	nurr	arl	
		,	932		Signe Title	S	UPERI	NTENDE	WI -	
ate. J.	ANUARY	17 th 19	31		Addre	essB	RIDGE	R, MOI	TANA	
			or the condition				DEC	EMBER	20th 1	931 , 19
ommenced		r Gas Sand		19	F1	nished drining			ater Sands	
ontin	Y	Denote Gas	to (4-	24 nota	ested No	o. 1, from	520		to	545
reputor.	9 4	690	to 479	g de		. 2, from				5829.
0. 3. from	550	570	to 558	> 04						
from.	584	1	to 58 25	dy						
o. 5, 170m			10	CA	SING RECO				to	
Size	Weight Per	Threads	14915 - I		Kind of	Cut & Pulled		Perfor	ated	1
Casing	Foot	Per Inch	Make	Amount	Shoe	From		rom	То	Purpose
15 1/2	70	10	NATIONAL	4381911	REG					
3 3/8"	61	10	NATIONAL	832:1"	REG					
8 5/8	36	8 10	API#SPANC	46971	REG					
6/58	26	10	API SPANC	9951	NONE	Carlos Carlos	55	37	5615	LET OIL IN LI
			44.0						- Cally 1	
	0					-V			27	
om		to	CASIN		From D	escription No	ONE	1		
om		to	7,99		From D	escriptionN	ONE	1		
om	on	to	7,99	DDING AN	From D	escription	ONE			
Descripti Size Casing	on	to	MU Number Sa	DDING AN	From D	escriptionNo	ONE			
Descripti Size Casing	whe 450	re Set	MU Number Sa Cemer	DDING AN	From D D D D D MD CEMFN Methods	escriptionNC escription EING RECORI	ONE			
Descripti Size Casing 15 1/2 13 3/8	whe 450	re Set	MU Number Sa Cemer	DDING AN	From D D OCEMENT Methods	escription	ONE			
Descripti Size	Whe 458	re Set	Number Sa Cemer 146	DDING AN	Methods PERKIN	escription	ONE			
Descripti Size Casing 15 1/2 13 3/8	Whe 458	re Set	Number Sa Cemer 146	IDDING AN	Methods PERKIN	escription NC escription EING RECORI Used S S	ONE			
Descripti Size Casing 5 1/2 3 3/8 8 5/8"	Whe 450 842 4697	re Set	MU Number Sa Cemer 146 175 450	PLUGS	Methods PERKIN PERKIN PERKIN	escription NC escription USE USE USE S S S PTERS	ONE Mud Gr	ravity Dep	Am	ount of Mud Used
Descripti Size Casing 5 1/2 3 3/8 8 5/8"	Whe 450 842 4697	re Set	MU Number Sa Cemer 146 175 450	PLUGS	Methods PERKIN PERKIN PERKIN S AND ADA	escription NC escription EING RECORI Used S S PTERS	ONE Mud Gr	ravity Dep	Am	ount of Mud Used
Descripti Size Casing 15 1/2 13 3/8 8 5/8" eaving plug-apters—Ma	Whe 450 842 4697 —Material	re Set	MU Number Sa Cemer 146 175 450	PLUGS	PERKIN PERKIN S AND ADA h	escription NC escription Used Used S S S PTERS	ONE Mud Gr	ravity Dep	Am	ount of Mud Used
Descripti Size Casing 5 1/2 3 3/8 8 5/8"	Whe 450 842 4697	re Set	Number Sa Cemer 146 175 450 Explosives Use	PLUGS	Methods PERKIN PERKIN PERKIN S AND ADA	escription NC escription EING RECORI Used S S PTERS	ONE Mud Gr	ravity Dep	Am	ount of Mud Used
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Descripti Size Casing 15 1/2 13 3/8 8 5/8" eaving plug-apters—Ma	Whe 450 842 4697 —Material	re Set	Number Sa Cemer 146 175 450 Explosives Use	PLUGS Lengtl SHOo	Methods PERKIN PERKIN PERKIN OTING REC	escription NC escription Used Used S S S PTERS	ONE Mud Gr	ravity Dep	Am	ount of Mud Used
Descripti Size Casing 5 1/2 3 3/8 8 5/8" aving plugapters—Ma	Whe 450 842 4697 —Material	re Set	Number Sa Cemer 146 175 450 Explosives Use	PLUGS Lengtl SHOO	Methods PERKIN PERKIN PERKIN OTING REC	escriptionNC escription EING RECORI Used S S S PTERS ORD Date	ONE Mud Gr	ravity Dep	Am	ount of Mud Used
Descripti Size Casing 5 1/2 3 3/8 8 5/8" aving plugapters—Ma	When 450 842 4697 —Material	re Set 1 9 11 NONE Sed I	Number Sa Cemer 146 175 450 Explosives Use	PLUGS Lengtl SHOot NOT	PERKIN PERKIN S AND ADA Size OTING REC DOLS USEI 6219	escription	Mud G	Dept	Am oth set h Shot	Depth Cleaned Out
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Descripti Size Casing 15 1/2 13 3/8 8 5/8" eaving plug apters—Ma Size	Whe 450 842 4697 Shell U	re Set 1 9 11 NONE Sed from 83	Number Sa Cemer 146 175 450 Explosives Use	PLUGS Lengtl SHOo	Methods PERKIN PERKIN PERKIN OOLS USEI 6219 839 DATES	escription	Mud G	Dept	Am oth set h Shot feet tofeet to.	Depth Cleaned Out
Descripti Size Casing 15 1/2 13 3/8 8 5/8" Daving plugators—Ma	Whe 450 842 4697 Shell U	re Set 1 9 11 NONE Sed From 83	Number Sa Cemer 146 175 450 Explosives Use	PLUGS Lengtl SHOod Vote to	PERKIN PERKIN PERKIN PERKIN OTING RECURIATION SIZE DOTING RECURIATION COLS USEI 6219 839 DATES Put to	escription	Mud Gr	Dept	Am oth set h Shot feet tofeet to	Depth Cleaned Out feet feet 19 32
Descripti Size Casing 15 1/2 13 3/8 8 5/8" Daving plugators—Ma	When 450 842 4697 Shell U	re Set 1 9 11 NONE Sed I	Number Sa Cemer 146 175 450 Explosives Use	PLUGS Lengtl SHOod Vote to	PERKIN PERKIN PERKIN PERKIN OTING RECURANTITY SHOT OOLS USEI 6219 839 DATES Put to	escription	Mud Gr	Dept	Am oth set h Shot feet tofeet to 5th % emulsi	Depth Cleaned Out
Descripti Size Casing 15 1/2 13 3/8 8 5/8" Saving plug- gapters—Ma Size The product of th	When 450 842 4697 Shell U	re Set 1 9 11 NONE Sed I	Number Sa Cemer 146 175 450 Explosives Use	PLUGS Lengtl SHOO NOT feet to	Methods PERKIN PERKIN PERKIN OTING REC DIAMETER DECEMBER SIZE DIAMETER DOLLS USEI 6219 839 DATES Put to of fluid of	escription No es	Mud Ga	Dept Dept ARY 1;	Am oth set h Shot feet to 5th % emulsity, °Be	Depth Cleaned Out feet feet feet 19 32 on; % water;
Descripti Size Casing 5 1/2 3 3/8 8 5/8" aving plugapters—Ma Size The production of the product	When 450 842 4697 Shell U	re Set 1 9 11 NONE Sed From. 83 om. 0 Che first 24 er 24 hours. 0 cu. ft. of	Number Sa Cemer 146 175 450 Explosives Use	PLUGS Lengtl SHOO d Qu NOT Feet to	Methods PERKIN PERKIN PERKIN OTING REC DIAMETER DECEMBER SIZE DIAMETER DOLLS USEI 6219 839 DATES Put to of fluid of	escription No es	Mud Ga	Dept Dept ARY 1;	Am oth set h Shot feet to feet to ty, °Be	Depth Cleaned Out feet feet feet feet y 19 32 on; % water;

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "side-tracked" or left in the well, give size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

FORMATION I	RECORD
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From	То	Total Feet	Formation
0	25	25	YELLOW CLAY
25	40	15	SANDY SHALE
40	90	50	GRAY SANDY SHALE
90	95	5	HARD SANDY SHALE
95	135	40	GRAY SANDY SHALE
135	140	5	SAND
140	150	10	GRAY SANDY SHALE
150	170	20	HARD SAND (DRY)
170	175	5	BROWN SAHLE

	F	DRMATION RECORD	
From	То	Total Feet	Formation
Too	10	Total Feet	The state of the s
175	228	53	GRAY SANDY SHALE
228	230	2	HARD SHELL
230	261	31	GRAY SANDY SHALE
261	290	29	SAND
290	295	. 5	GRAY SANDY SHALE
295	320	25	GRAY SANDY SHALE
320	330	10	SAND
330 427	427 448	97 21	GRAY SANDY SHALE
448	453	5	HARD BROWN SANDY SHALE
110	200	4381 9"	HARD GARY SAND
453	467	15	152"- 70# CASING CEMENTED WITH 146 SACKS
467	473	6	GRAY SAND
473	517	45	GRAY SAND
517	520	3	GRAY SAND VERY HARD
520	545	25	GRAY SAND (SOME WATER)
545	550	5	GRAY SANDY SHALE
550	612	62	BROWN SHALE
612	761	149	GRAY SANDY SHALE
761	810	49	BROWN SHALE
810 820	820 835	10	GRAY SHALE
835	839	4	BROWN SHALE GRAY SHALE
000	68 B1 ,	832' 1"	13 3/8" 61# CASING 10'-8"
CABLE TOOLS	SHUT DOWN JUNE 28,1		BELOW FLOOR
ROTARY TOOLS	STARTED TO DRILL	AUGUST 8th 1931	
830	960	130	GRAY SANDY SHALE & SAND
9 60	1099	139	GRAY SANDY SHALE & SAND
1099	1105	6	HARD SHELL
1105	1456	351	GRAY SANDY SHALE
1456	1498	42	BROWN SANDY SHALE
1498	1645	147	GRAY SANDY SHALE
1645 1662	1662 1780	17 118	HARD GREY SAND
1780	1785	5	GRAY SANDY SHALE & SHELLS HARD GRAY SAND
1785	1911	126	GREY SHALE & SHELLS
1911	2050	139	BROWN SANDY SHALE
2050	2175	125	HARD SAND & SHELLS
2175	2222	47	STREAKS OF COAL & GREY SAND
2222	2242 CORE		SANDY GREY SHALE
2242	2260	18	SANDY GREY SHAIE
2260	2353	93	BROWN SHALE
2353	2398	45	HARD GREY SAND & SHELLS
2398	2544	146	SANDY BROWN SHALE
2544	2552	8	COAL SOFT
2552 2573	2573 2576	21	SANDY GREY SHALE STICKY SHALE
2576	2582	6	SANDY SHALE & SHELLS
258\$	2600	18	BROWN SHALE
2600	2786	186	GREY SANDY SHALE
2786	2930	144	HARD GREY SAND
2930	2983	53	HARD GREY SAND STREAKS OF BLACK
2983	3010	27	GREY SANDY SHALE SHALE
3010	4015	1005	BROWN SANDY SHALE
4015	4023	8	GREY SHAIE & SHELLS
4023	4029 CORED		HARD BROWN SHALE
4029	4155	81	BROWN SHALE & SHELLS
4155	4410 4414	255	HARD BLACK SHALE & SHELLS
4410 4414	4423 CORED	9	HARD GREY SAND HARD GREY LIGHT SAND
4423	4437 CORED		BLACK SHALE W/STREAKS OF SAND
4437	4599	162	HARD BLACK SANDY SHALE
4599	4610	11	HARD BLACK SHALE
4610	4613	3	HARD GREY SAND
4613	4623 CORED		SANDY BLACK SHALE
4623	4692	69	HARD BLACK SANDY SHALE
4692	4695 CORED		HARD GREY SAND
4695	4702 CORED	The state of the s	HARD GREY SAND
4702	4715	13	HARD GREY SAND
4715	4722 CORED	7	HARD GREY SAND
4722	4735		HARD GREY SAND
4735 4771	4771 CORED 4780 CORED		HARD GREY SAND (SHOWING GAS)
2112	4780 CORED	46971	HARD GREY SAND
	Carlo	1001	8 5/8" - 36# CASING CEMENTED W/ 450 SACKS CEMENT
4780	4794	14	HARD GREY SANDY SHALE
47044	4820	16	HARD BLACK SHALE
4826	4822	2	HARD SHARP SAND
4822	4826	4	HARD BLACK SHALE
4826	4830 CORE		HARD BLACK SHALE W/STREAKS SAND
4830	4832 CORE		SANDY SHALE
4832	4835 O ORE		HARD GREY SAND SHOWING GAS)
4835 4843	4843 CORE 4852 CORE		HARD GREY SAND
4852	4852 CORE 4888	9 36	BLACK SHALE STREAKS SAND
4888	4906	18	HARD BLACK SHALE HARD SHELL
4906	4944 CORE		GREY SAND (SHOWING OF GAS)
4944	4959	15	HARD SANDY BLACK SHALE
4959	4979	20	HARD GREY SAND & LIME SHELLS
4979	4987 CORE		BLACK SANDY SHALE
4987	4995 CORE	D 8	HARD GREY SANDY SHALE
4995	5004	9	HARD GREY SANDY SHALE
5004	5012 CORE		HARD BLACK SANDY SHALE
5012	5137	125	BLACK SANDY SHALE
5137	5151	14	BLACK SANDY SHALE
5151 5319	5319	168	BLACK SANDY SHALE
5352	53 5 2 5435	33	STICKY BLUE SHALE
5435	5435 55 1 5	83	BLACK SANDY SHALE
5515	5525	80 10	HARD BLACK SHALE
5525	5619	94	HARD BLACK SHALE STREAKS OF SAND HARD BLACK SHALE
5619	5639 CORE		RED SHALE
5639	5648	9	BLACK & RED SHALE
5648	5716	68	HARD GREY SHALE
5716	5738 CORE		HRAD BLACK SANDY SHALE

BOARD	OF	RAILROAD	COMMISSIONERS	OF	THE	STATE	OF	MONTANA

Lee Dennis, Chairman Dan Boyle, Commissioner L. C. Young, Commissioner

OIL AND GAS WELL DIVISION

LOG OF OIL OR GAS WELL

Company					Addre	ess				
Lessor or Tr	ract				Field.			Sta	te	MONTANA
Well No		Sec	т		R	М	eridian.		County	
Location	ft. {	N. s. of		Line and	f	$\mathbf{t}.\left\{egin{array}{c} \mathbf{E}.\ \mathbf{W}. \end{array} ight\}$	of	Line (Derrick fl	ofoor relative	Elevationto sea level)
The infe	ormation giv	en herewith	is a comple	ete and corre	ect record o	f the well	and all	l work done	thereon so	far as can be deter-
mined from	all available	e records.								
					-					
Data										
		s page is for		on of the we						
							lling			, 19
	Oil or	Gas Sands	or Zones					Important	Water Sands	
N 1 6		Denote Gas l			N	1. from			to	
						o. 5, from			to	
				CA	SING REC	ORD			Green Agency	
	1 1				1 1 4	l a		Perf	orated	
Size Casing	Weight Per Foot	Threads Per Inch	Make	Amount	Kind of Shoe	Cut & P Fron		From	То	Purpose
	- The second of	F 860								
	1									
				1	Acres de la Constantina			1		
		1								

••••••						1000				
			CASI	NG OR TOO	LS LOST (R SIDET	RACKE	ED		
From		to			From			to		200019
		to								
Descrip	tion				1	Description				
			M	UDDING A	ND CEMEN	TING RE	CORD			
	1						1			
Size Casing	Whe	re Set	Number Cem		Methods	Used	N	Iud Gravity	Am	ount of Mud Used
- Alia										
5710			0.							
ET ST			OTAR							
							1			
					S AND AD			13 18	Depth set	
Heaving pl	ug—Material			Leng	Size				Depth see	
Adapters—	Material			SHO	OOTING RE	CORD				
								7 1 1 1 1 1 1		<u></u>
Size	Shell	Used E	explosives U	Jsed	Quantity		Date	D	epth Shot	Depth Cleaned Out
					-Marin L					
113			1.58							
£0£	3		141		(10)					
								P BEIDLE		
					TOOLS US		nd from		feet to	feet
Rotary too	ls were used	from		feet to.		foot	and from	m	feet to	feetfeet
Cable tools	were used f	rom		reet to.		1660, 4	ind Iro			ofeet
			10		DATES	to produc	ing			, 19
			, 19	hamm						sion;% water;
			hours was.	barre	eis of finia	or winding		G	ravity, °Be	
	% sedimen	per 24 hours				Rock pres	sure, lb			
		000 cu. ft. of								
Ganons ga	Jorne per 1,	20. 31			EMPLOYE	ES				
	9			, Dril	ler		2			, Driller
					ler					, Driller
It is o	of the greate	st importance	to have a sults. If t	complete his here were ar ation. If the state kind	ly changes !	well. Plea made in the been dynam used, posi	nse state	ve date size	position, an	drilling, together with ny casing was "side- d number of shots. If bailing.
1 20 20	<u> </u>	1	6.15	F01	1				Form	etion
	From		То		To	otal Feet			Form	acton
	19 1									
			a de la		1396					

From	m.	1		
2.70m	То		tal Feet	Formation
	SHEET NO.	2		
I	. P. CHAPMAN WELL	No. 1		
	******	1 NO. 1	*****	4 *
5738	5745	CODED		
5745	5752	CORED	7 7	HARD GREY SANDY SHALE VERIGATED SHALE
5752	5759	CORED	7	RED & GREY SANDY SHALE
5 7 59 5 7 69	5769	CORED	10	RED & GREY SANDY SHALE
5778	5778 5789	CORED	9	GREY & BLACK SANDY SHALE HAD
5789	5799	CORED	11	RED & BLACK SANDY SHALE (SOI HARD GREY SAND
5799	5806	CORED	7	HARD GREY SAND & BLACK SHALL
5806	5812	CORED	6	HARD BREY SAND & BLACK SHALL
58 12 5824	5824	CORED	12	SAND (WATER)
5829	5829 5832	CORED	5	SAND (WATER)
5832	5837	ensious:	3 5	HARD GREY SAND HARD GREY SHALE
5837	5841	CORED	4	HARD GREY SANDY SHALE
5841	5851	CORED	10	HARD GREY SANDY SHALE (DRY)
58 51 58 60	58 60	CORED	9	HARD GREY SAND
5887	5887 5902	CORED	27	BLACK SANDY SHALE W/GREEKLIN
5902	5913	CORED	15 11	BLACK SANDY SHALE W/ SAND
5913	5921	CORED	8 /	SANDY BLUE SHALE BLACK SANDY SHALE
5921	5929	CORED	8 /	BLACK SANDY SHALE
5929	5938	CORED	9	BLACK SANDY SHALE
5938 5952	5952	CORED	14	BLACK SANDY SHALE
5965	5965 5982	CORED	13 17	HARD BLACK SHALE
5982	5988	CORED	6	BROWN SHALE (SOFT) BLACK SHALE
5988	5999	CORED	10	HARD BROWN SHALE
5999	6015	CORED	16 4	HARD BROWN SHALE
6015 6022	6022	CORED	7	HARD BROWN SHALE
6035	6035 6044	CORED	12	HARD BROWN SHALE
6044		ORED	9	RED SHALE
6055	6070	CORED	15	RED SHALE
6070	6092		22	RED SHALE
6092	6105		12	RED SHALE
6105 6128	6128	aonm	23	RED SHALE
6141	6141 6148	CORED	13 7	RED SHALE
6148	6154	CORED	6	BLACK SHALE BLACK SHALE
6154	6168		14	BLUE SAHLE
6168	6185		17	GREY SHALE
6185	6199	CORED	14	RED SHALE
6199 6204	6204	CORED	5	RED SHALE
6207	6207 6219	CORED	3 12	RED SHALE
6219		002.55	4.0	TOTAL DEPTH OF HOLE
HOLE PLUGGED BACK	UP TO 5800' WITH	HEAVY ROTA	ARY MUD, CEN	ENTED THEN WITH 40 SACKS FOUND AT 5615 or the BOTTOM
OF HOLE.	Service on		995	6 5/8" INSERTED WAS RUN, THE
				BOTTOM 78* BEING PERFORTED.
5 6 1 5 1	TOTAL DEPTH OF HOL	e after p	LUGGING)	
5 6 1 5 1	TOTAL DEPTH OF HOL	E AFTER PI	LUGGING)	
5 6 1 5 (751
INSERTED LINER NOT	CEMENTED UP IN 8	5/8" CASI	NG AROUND	75° PANY AT 6219° SHOWED THE
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1- DEGREE	CEMENTED UP IN 8	5/8" CASI	NG AROUND	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1 DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1 DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1-DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1-DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1-DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1-DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1 DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1- DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1 DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1 DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1 DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	PANY AT 6219' SHOWED THE
INSERTED LINER NOT THE LAST ACID TEST WELL OFF 1 DEGREE WELL IS IN GOOD CO	CEMENTED UP IN 8 RUN BY PERKINS C	5/8" CASI	NG AROUND MENTING COM	PANY AT 6219' SHOWED THE

Form No. 4 (Gen. Rule 206.3 and 230)

LOCATE WELL CORRECTLY

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY



	1 1 1			RECOMPLI	ETION R	EPORT		60100	
Company T	HE MONTA	NA POWER	COMPANY	. Lea	ase Ch	apman			_Well No5
2 company	30 Elect	ric Bldg			100	or parties			_ Won No
Address_B	illings,	Montana	59101		Field	(or Area)		Dry Creek	
			(XX)			(XEX)			
The well is lo	cated 660	ft. from	ı (S) line an	d 660	ft. from	(W) line	of Sec.	2	
Sec. 2	; T	7s; I	R. 21E	; County_	Carb	on		; Elevation	n 4279 KB
Re	completi	on 8-	6-75	19	· Comr	oleted Re	comple	tion 1	0-3-75 , 19
The info of the well a	ormation giv	en herewith is date.	a complete	and correct	record of	101	30/	1 -	age is for the condition
Completed a	s Oil	Well			Signed_		Mas		
-	(oil we	ll, gas well, dry	hole)		TC:41-		Rhode		
					Title	Cniei	GEOTO	gist	
					Date	Febru	arv 27	, 1976	
					Date	10014		,	
				RTANT ZO					
		(denote	oil by O, g	as by G, wa	ater by W	state for	mation if	known)	
From	to_				_ rioni_		10		
				CASINO	G RECOR	D			
Size Casing	Weight Per Ft.	Grade	Thread	Casing S	Set	From	То	Sacks of Cement	Cut and Pulled from
8-5/8"	36#		8RT	469	7			450	
				_					
	<u> </u>	<u> </u>	1	TURING	G RECOR	D			
	-			TODIN	- RECOR				
		Size ubing	Weight Per Ft.	Grade	Thread	Amo	ount	Perforations	
	2-3	/8"	. 6	J	8 R	2631	KB	None	
					WON' BEG				
				COMPLET					
Rotary tools	s were used	from Su	face			to			
Cable tools	ware used fr	am.				to			
Total depth		_ft.; Plugged	back to	2945'	T.D.; O	pen hole	trom		_to
	DEDEC	RATIONS		()	A	CIDIZED, SH	OT, SAND	FRACED, CEMEN	TED
Int	erval		oer and		nterval		Amou		_
From	То	Size a	nd Type	From	То		Materia		Pressure
2612	2617	5 jet		2612	2617		000# \$		_3400 psi
2621	2631	10 jet	shots	2621	2631	108	bbls flu		
		-							
							P&A show	plugs above)	
				INITIAL	PRODUCT	TION			
Well is pro	ducing from	Virg	elle		(pool)	formation.			
I. P. 130				b	nou rs	flowing	J		
					(pu	mping or flo	wing)		
600		_Mcf of gas	per24_	hou		0	•	WC	
0	t	arrels of wat	er perU_		_hours, or_	- 0	9	6 W.C.	

(OVER)

INITIAL PRODUCTION—(Continued)

Initial 10-day average production (bbl./day	(if taken)
Pressures (if measured): Tubingpsi flowing;	psi shut-in
Casing psi flowing;	psi shut-ik
Gravity° API (corrected to 60° F.)	

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
						<u> </u>		
						 		
						 - 		
			+			 		
+			 		-	 		
		-						
i			1			1		

CORES

No.	Interval	Recovered
_		
		_
<u> </u>		

LOG RUNS

Туре	From	To		
GR/N TDT	_107	2920		
TDT	200	2920 2938		
-				

FORMATION RECORD

(Need not be filled out if Geologist sample description filed with Commission)

SAMPLE AND CORE NO. AND DESCRIPTION

This well was suspended as a Greybull oil well by Ohio Oil Co. prior to 1966.
Ran GR/N from 2920 to surface. Ran CBL from 2942 to surface. Ran TDT from 2938 to 200'. Set Baker Cast Iron Bridge Plug @ 2928'.
Perforated 2922-23 with 4 jet shots. Set Model C packer on 2-3/8" @ 2894'. Squeeze perforations with 100 sx regular cement. Ran CBL from 2894-1350'. Top of cement @ 2770'.
Perforated 2720-2771'. Ran Model C Packer on 2-3/8" @ 2642'. Squeezed perforations with 200 sx cement. Pull packer and run in and drill out cement to 2915'. Ran CBL from 2897-2200'.
Perforate 2580-81. Set packer @ 2488'. Squeezed perforations with 50 sx regular cement. Drilled out cement and cleaned out hole to 2915'.
Perforate 2612-1700' with 5 shots and 2621-31' with 10 shots.
Ran tubing. Swabbed well in, making 132 Mcf. Set cast iron Bridge Plug @ 2665' Set Model C Packer @ 2591'.
Fraced perforations (2612-17 & 2621-31) down 2" tubing with 20,000# of sand and 108 bbls. frac fluid.
Killed well. Pulled Model C Packer. Reran 2-3/8" tubing and set at 2631'. Swabbed well in.
The well tested approximately 6 million with spray of oil.
Production test 600 Mcfpd and 130 BOPD.

P-0014243

LINITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

CONSERVATION BRANCH

T	7	Sa.	
R_		Ba.	

PATENTED LAND

INDIVIDUAL WELL RECORD

Reference No. . . 9

			State	1 26	sutana.			
Lessee or owner Chapma	County	County Carbon						
THE MONTH	Field_	Di	y Cree	k				
Operator Ohio Oli de		t Bi						
Well No. 5			isionC			AM XS		
Location 660 feet from SS. line and 660 feet from WW. line of 3 Sec.								
Drilling approved				evation .				
Drilling commenced	27	1931		epth				
Drilling ceased December 20 , 1931 Initial production 1500 w.								
Completed for production Sebr. 10 , 1932 Gravity A. P. I.								
Abandonment approved	,	19	Initial 1	R. P		Loos		
Geologie formations				Productive horizons				
Surface Lowe	at tested	Na	me		Depths			
Lanco Sun	danco	Greyb	.11	- 5570	5585		11 4 0	
+ 12.5. mouro	1-6-6.	WELL 8	STATUS					
YEAR Jan, Feb. Mar.	Apr. 3	fay June	July	Aug.	Sept.			
1938 POR								
			or Johnson					

REMARKS: ... 49.8. 56151

S. S. SOVERSMENT PRINTING OFFICE 0-90.

OHIO CIL COMPANY WELL NO. 5

Casing Record

154" 451° 146 sacks 13-3/8° 865° 175 sacks 8-5/8° 4697° 450 sacks 6-5/8° 995° Liner

LOG

Fran	To	Total Feet	Formation .
0	25	25	Yellow elsy
25	135	110	Sandy shale
135	140	5	Sand
140	150	10	Gray sandy shale
150	170	20	Hard sand (dry)
170	175	5	Brown shale
175	228	53	Gray sandy shale
226	230	2	Hard shell
230	261	31	Gray sandy shale
261	290	29	Sand
290	295	25	Gray sandy shale
290 295 320	320	25	Gray sandy shale
320	330	10	Sand
330	330 148	118	Sandy shale, gray and brown
330 148	545	2.07	Grey sand
545	550	5	Gray sandy shale
550	612	62	Brown shale
612	761	119	Gray sandy shale
761	839	78	Shale, brown and gray
839	1099	260	Gray sandy shale and sand
1099	1105	6	Hard shell
1105	1498	393	Brown and gray sandy shale
1498	1615	21,7	Gray sandy shale
1615	1662	17	Hard gray sand
1662	1780	118	Gray sandy shale & shells
1780	1785	5	Hard gray sand
1785	1911	126	Gray shele & shells
1911	2050	1.39	Brown sandy shale
2050	2175	125	Hard sand & shells
2175	8222	47	Streaks of coal & gray sand
2222	22/12	20	Sandy gray shale
22/2	2260	18	Sandy gray shale
2260	2353	93	Brown shalo
2353	2398	45	Sendy brown shale
2398	2544	146	Brown shale
2544	2552	8	Soft scal
2552	2583	31	Sandy shale
2583	2600	17	Brown shale
2600	2786	186	Gray sandy shale
2786	2983	197	Hard gray sand
2983	4015	1032	Brown and gray sandy shale
1,015	14110	395	Black and brown shale and shells

LOG CONTINUED OHIO OIL O. WILL # 5

		DESCRIPTION OF PERSONS ASSESSED.	And the second s
From	To	Total Foot	Yormution /
1410 1423 1437 14610 14613 14692 14780 14791 14820 14822 14830 14832 14833 14868 14906	14123 14137 14610 14613 14692 147914 14820 14822 14830 14832 14813 14888 14906 14914	13 14 173 79 88 14 26 2 8 2 11 45 18 38	Hard gray sand Black shale with streaks of sand Hard black shale Hard gray sand Plack sandy shale Hard gray sandy shale Hard black shale Hard black shale Hard black shale Sandy shale Hard gray sand, show gas 1,832-35 Hard black shale Hard shell Grey sand (show gas)
1853 1914 1959 1979 5012 5319 5352 535 5716 5735 5735 5739 5799 5812 5829 5832 5837 5851 5860 5952 6035 6111 6168 6185	1,959 1,979 5012 5319 5352 51,35 5716 5715 5752 5789 5799 5812 5829 5832 5837 5851 5860 5952 6035 611,1 611,8 6185	15 20 33 307 33 83 281 29 7 37 10 13 17 3 5 14 9 92 83 106 7	Hard sandy black shale Hard gray sand & limeshells Sandy shale Flack sandy shale Sticky blue shale Black santy shale Shale, black and gray. Graybull 5570-05-das Sandy shale, gray and black Variegated shale Sandy shale, red & black Hard gray sand Black sandy shale Hard gray sand Flack sandy shale Brown and black shale Red shale Black shale Red shale Red shale

Show of gas in Frontier. Small amount of water in Lakota. Sundance sand 5841-6185, dry. Top of Chugwater 6219'. Form No. 2 GENERAL RULES 201, 202, 213, 216, 219, 230, 231, 232

(SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

BILLINGS OR SHELBY

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	
	Report of Recompletion	X

The second secon				
	Report of Rec	Report of Recompletion		
(Indicate Above by Check	Mark Nature of Report, Notice, or	Other Data)		
	Febru	ary 23	, 19 7 6	
Collowing is a HUNDENNING WARNER of report of work done	n land XXXXXX described			
	LEASE	Chapman		
MONTANA	Carbon	Dry	Creek	
(State)	(County)		(Field)	
Well No. 5 CSWSW 2	7S (Township)	21E (Range)	MPM (Meridian)	
	ne and			
LOCATE WELL SITE ACCURATELY ON PLAT ON	BACK OF THIS FORM.			
The elevation of the MINIMIX K.B. above the sea le	vel is 4279' K.B.			
READ CAREFULLY DETAI	LS OF PLAN OF WORK	I	READ CAREFULLY	
(State names of and expected depths to objective sands; important proposed work, particularly all details of Shooti	show size, weights, and lengths of page 1, Acidizing, Fracturing.)	proposed casings, cement	ing points, and all other	
ı	DETAILS OF WORK RESULT			
This well was suspended as a Gr	eybull oil well by	Ohio Oil Co.	prior to 196	
Ran Gamma Ray Neutron log from Ran CBL from 2942 to surface. Ran TDT log from 2938 to 200'. Perforated 2922-23 with 4 jet s Squeeze perforations with 100 s Top of cement @ 2770'.	Set Baker Cast Iro	packer on 2-	3/8" @ 2894'.	
Perforated 2720-2771'. Ran Mod perforations with 200 sx cemen	el C Packer 2-3/8" t. (see page 2)	@ 2642'. Sq	ueezed	
Approved subject to conditions on reverse of form Date 27-76	Company THE	MONTANA POWE 3. Rhodes ef Geologist Electric Blo	R COMPANY	

BOARD USE ONLY
API WELL NUMBER

2 5 0 9 6 0 0 8 5

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPUDDED OR EXTENSION REQUESTED.

Locate well by footage measurement from legal subdivision (Section) line and nearest drilling or producible well, if any.



Form No. 2 File at Billings or Shelby	Rge		Form No. 2 File at Billings or Shelby
Locate Well Correctly			
Twp			•
	SCALE_	_1~=2000′	·

THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

- 1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars (\$150.00).
- 2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.
 - 3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
- 4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.
- 5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.
- 6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
- 7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.
- 8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.
- All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
- 10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 230 and one copy of all cementing records as furnished by the cementing company and described in Rule 234.
- 11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

Recompletion Report
The Montana Power Co.

Pull packer and run in and drill out cement to 2915'. Ran CBL from 2897-2200'.

Perforate 2580-81. Set packer @ 2488'. Squeezed perforations with 50 sx regular cement.

Drilled out cement and cleaned out hole to 2915'.

Perforate 2612-2700' with 5 shots and 2621-31' with 10 shots.

Ran tubing. Swabbed well in, making 132 Mcf.

Set cast iron Bridge Plug @ 2665'.

Set Model C Packer @ 2591'.

Fraced perforations (2612-17 & 2621-31) down 2" tubing with 20,000# of sand and 108 bbls frac fluid.

Killed well. Pulled Model C Packer. Reran 2-3/8" tubing and set at 2631'.

Swabbed well in.

The well tested approximately 6 million with spray of oil.

Production test 600 Mcfpd and 130 BOPD.

OF THE BOARD

OF THE STATE OF MONTANA BILLINGS OR SHELBY

NOTICES AND REPORT OF

ARM 36 22 1004

ARM 36.22.1306 ARM 36.22.1309

Notice of Intention to Drill	Subsequent Report of Water State of
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Camenting
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing	Supplementary Well History
Notice of Intention to Abandon Well	Report of Fracturing
Notice of Change of Operator XX	
(Indicate Above by Check Mark	Nature of Report, Notice, or Other Data)

October 16 Following is a notice of intention to do work { described as follows: on land LEASE Chapman

MONTANA		Carbon	Dry Creek (Field)		
MONTANA (State)		(County)			
Well No. 5	SW ¹ 4SW ¹ 4 2 (m. sec.)	7S (Township)	21E (Range)	M.P.M. (Meridian)	
The well is located660	ft. from } } line and	660 ft. from	W line of Sec	2	

For notice of intention to drill, write the API or the well name of another well on this lease if one exists, LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 4,267 G.L.

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK RESULT

Change of Operator:

FROM: Luff Exploration Company

Suite 850

1580 Lincoln Street Denver, CO 80203

TO: The Montana Power Company

40 East Broadway Butte, MT 59701

Approved	subject	to	conditions	on	reverse	of	form
			A 4000				

Date ORIGINAL SIGNED BY:

Dee Rickman, Executive Secretary

District Office Agent

Director, Lease Administration

Address 40 E. Broadway, Butte, MT



NOTE: - Reports on this form to be submitted to the appropriate District for approval. DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL. BOARD OF DIE

Form No. 2

NOTICE THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENTATION THE BOARD. (SUBMIT IN QUADRUPLICATE)

ARM 36.22.307 ARM 36.22.1003 -ARM 36.22.601 ARM 36.22.1004 ARM 36.22.1013 ARM 36.22.602 ARM 36.22.603 ARM 36.22.1301

ARM 36.22.1306

ARM 36.22.1309

ARM 36.22.604

ARM 36.22.605

& G.1.9 E OF HORBOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

BILLINGS OR SHEET BY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report, of Water Shut-off
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing		Supplementary Well History
Notice of Intention to Abandon Well		Report of Fracturing
Change of Operator	X	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

						May	10			, 1985
Following	is a Inotice of	of intention of work d	n to do w one	work on land	owned leased	described LEASE	as follo	ows: oman		
	MONTA	ANA		Carbon				Dry	Creek	
••••••••••	(Sta				(County)				(Field)	
Well No	5	SW SW	Sec. 2	2		7S		21E	M.P	.М.
Well Mo.	••••••••••		(m.	sec.)		(Township)	••••••	(Range)	(Merid	ian)
The well	is located	660	ft. from	X line and	660	ft. fron	n XXX	line of	Sec2	
LOCATE	WELL SITE A	ACCURATI	ELY ON F	PLAT ON BACK	OF THIS	FORM.				
The eleva	ation of the gro	ound or K.I	3. above t	he sea level is4	279'	KB	······			

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK RESULT

The operator of the Chapman #5 will be changed from North American Resources Company to Luff Exploration Company, Denver, Colorado.

Approve	d subject to conditions on reverse of for	m Company North American Resources Co.
Date	JUN 1 4 1985	By Jim Else James & Else
Ву	Dee Rickman, Executive Secretary	Title Petroleum Engineer
	District Office Agent Title	Address 16 E. Granite, Butte, MT



NOTE:-Reports on this form to be submitted to the appropriate District for approval DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED. Form No. 2

NOTICE THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

(SUBMIT IN QUADRUPLICATE)

ARM 36.22.307 ARM 36.22.1003 ARM 36.22.601 ARM 36.22.1004 ARM 36.22.602 ARM 36.22.1013 ARM 36.22.603 ARM 36.22.1301 ARM 36.22.1306 ARM 36.22.1309

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA ARM 36.22.604 ARM 36.22.605 E 148 COS. COMM. C

BILLINGS OR SHELBY

CALLEF MONIA SUNDRY NOTICES AND REPORT OF WELLS

1	185 NOV CXX
Notice of Intention to Drill	Subsequent Report of Water Shut-off
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing CASTE OF NO. 10
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair HELENA
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing	Supplementary Well History
Notice of Intention to Abandon Well	Report of Fracturing
Notice of Intention to Change Op. X	42
(Indicate About by Check Mark	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

Following is a notice of intention to do work on land leased described as follows: LEASE Chapman MONTANA (State) County) MONTANA (State) County) Montana Carbon (County) Montana County) Montana (State) Montana (Mange) Montana (Mange) Montana (Mange) Montana (Mange) Montana (Mange) Montana Montana (Mange) Montana Montan	* v		Octobe	r 18 , 19.82
(State) Well No. 5 SW SW 2 7S 21E MPM (m. sec.) (Township) (Range) (Meridian) The well is located 660 ft. from \$ \frac{\text{XK}}{\text{SK}}\$ \$ \text{line and 660} ft. from \$ \frac{\text{XK}}{\text{SK}}\$ \$ \text{line and 660} ft. from \$ \frac{\text{XK}}{\text{SK}}\$ \$ \text{line of Sec. 2} \$. OCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM. The elevation of the ground or K.B. above the sea level is 4279' KE READ CAREFULLY DETAILS OF PLAN OF WORK READ CAREFUL (State names of and expected depths to objective sands, show size, weights, and lengths of proposed casings, cementing points, and all of Showting, Acidizing, Fricturing.) DETAILS OF WORK RESULT DETAILS OF WORK RESULT Affine spiritual of the most surpsy listed lists notice and the state of the	ollowing is a notice of intention to do work on land report of work done	leased (described as		i. ger
(Meridian) The well is located 660 It. from S		***************************************	· · · · · · · · · · · · · · · · · · ·	
The well is located 660 ft. from Six line and 660 ft. from Six line of Sec. 2. OCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM. The elevation of the ground or K.B. above the sea level is 42.79' KB READ CAREFULLY DETAILS OF PLAN OF WORK READ CAREFUL (State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all of supportant proposed work, particularly all details of Shooting, Acidizing, Fracturing;) DETAILS OF WORK RESULT DETAILS OF WORK RESULT NORTH AMERICAN RESOURCES COMPANY would said back thought and the proposed casings are minimated and the said said to real late search and said to real late search and said to a real said to a real late search and said to a real said t	Vell No. 5 SW SW 2	7S	21E	MPM
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(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all of proposed work, particularly all details of Shooting, Acidizing, Fracturing.) DETAILS OF WORK RESULT Approved subject to conditions on reverse of form DETAILS OF WORK RESULT DETAILS OF WORK RESULT NORTH AMERICAN RESOURCES COMPANY Approved subject to conditions on reverse of form NOW 0 3 1982	he elevation of the ground or K.B. above the sea level is4	279' KB		
(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all of more proposed work, particularly all details of Shooting, Acidizing, Fracturing.) DETAILS OF WORK RESULT The proposed of more proposed and proposed casings, cementing points, and all of the proposed casings, cementing points, and all of the proposed work, particularly all details of Shooting, Acidizing, Fracturing.) DETAILS OF WORK RESULT The proposed of more proposed casings of the proposed casings, cementing points, and all of the proposed work, particularly all details of Shooting, Acidizing, Fracturing.) DETAILS OF WORK RESULT The proposed work proposed casings of the proposed casings of the proposed casings, cementing points, and all of the proposed casings of the proposed casing participation of the proposed casings of the pr	EAD CAREFULLY DETAILS OF	PLAN OF WORK	R	EAD CAREFULLY
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RESULT 1. Any person, before commentation to particle and a second of the continue of the post of the	inportant proposed work, particularly all details of Shooting, Acidi	zing, Fracturing.)	and the second s	
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In production casing must be designed as a second resources of the content of the	ROVED SUBJECT TO THE FOLLOWING CONDITIONS: TO	DALL THIS WELL IS APP	OF INTENTION TO	THE NOTICE
and Monthly and continued and a control of the state of t	NORTH AMEI	RICAN RESOURCES COM	and the follows: YNAS = business and one in	and thall pay to the Mo (335.00): From times-live
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Approved subject to conditions on reverse of form NOV 0 3 1982	therefore and promine tenend is the name a mile bund with the surroun- days it among openial per	stoporty cemented by an apropered gd, gover water thould be a coun	locies castas musi ec l lo wall benegosco ac	4. Serface or con- diaz formations in case
NOV 0 3 1982	packers is approved by the interpolation content must be used to pro- typoses in the process of did — and not concerne protected.	test unitess a for mytion shut of a ut fresh water beating formations s	carny mest be cere- namble predective and	5. Any production ten the easing and all p
NOV 0 3 1982		striation because of instants		
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ORIGINAL SIGNED BY:	ate	By Kevin Brak	covec Sev	- Pratrov
by Dee Rickman, Executive Secretary, Title Technician		Technician	1	a makering at K
District Office Agent Title		120 then in a construction of given	6 - 57 36 6 - 11.55	1,20,112, 17,1
Address 40 E. Broadway Butte, MT	The comment of the second control of the second of the sec	Address 40 E. E	Broadway Bu	itte, MT
BOARD USE ONLY	BOARD USE ONLY	and the second s	manage more than the season	ANGEL TO THE OFTENSION OF

NOTE:-Reports on this form to be submitted to the appropriate District for approval 130 82.00 DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED. OVER

BOARD OF RAILROAD COMMISSIONERS OF THE STATE OF MONTANA

OIL AND GAS WELL DIVISION

2415410				
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L-ca	3C	 	 	

SUNDRY NOTICES AND REPORT OF WELLS

(Indicate Nature o	of Data by Checking)
Notice of intention to drill Notice of intention to change plans Notice of date for test of water shut-off Report on result of test of water shut-off Notice of intention of redrill or repair well Notice of intention to shoot X	Record of perforating casing. Notice of intention to pull or otherwise alter casing. Notice of intention to abandon well. Subsequent report of abandonment. 24 1948 Supplementary well history.
Following is a { notice of intention to do work } on :	land {owned leased } described as follows: Carbon Dry Creek (County) (Field)
Well No5 (m. sec.)	(Township) (Range) (Meridian)
The well is located 660 ft. $\left\{ \begin{array}{l} s. \\ N. \end{array} \right\}$ of South.	line and 660 ft. { E. } of W line of Sec. 2
DETAILS OF	PLAN OF WORK
	; show size, weights, and lengths of proposed casings; indi-
L. P. CHAPMAN W	
sch 4th- Run radio activity survey sch 5th- Shot well by Lane wells. 5467 to 5473 18 shots 5490 5480 to 5485 15shots 5535	
oduced March 9th- 115 Bbls.	March 20th- 89 Bbls.
10th- 16 "	" 21th- 42 "
" 11th- 26 " " 12th- 68 "	" 22nd- 42 " " 23rd- 31 "
" 13th- 42 "	" 24th- 31 " >
" 14th- 52 "	" 25th- 53 "
" 15th- 42 "	" 26th- 21 "
" 16th- 21 "	" 27th- 21 "
" 17th-) down	" 28th- 31 " 29th- 31 "
" 18th-) " 19th- 42 "	" 30th- 21 "
t would by shooting, figuring we migh	rease the production, it was the intent ht have some production shut off back
asing June 26, 1948	Company THE OHIU OIL COMPANY
7 (Date) latt	By
Chief Cil & Gas Field Supervisor	Title Supt.
Oil and Gas Well Division	Address Bridger, Montana
NOTE:-Reports on this Form to be submitted to the S	Superviser for Approval.

BOARD OF RAILROAD COMMISSIONERS OF THE STATE OF MONTANA

OIL AND GAS WELL DIVISION

1	-		
Lea	se	 	

SUNDRY NOTICES AND REPORT OF WELLS

(Indicate Nature of Data by Checking)

Notice of intention to char Notice of date for test of v Report on result of test of Notice of intention of red	nge plansvater shut-off	Record of perforating Notice of intention to pull or otherwis. Notice of intention to Subsequent report of	casing e alter casing abandon well habandonments abandonments abandonm	8 1948
	of intention to do work on of work done	(owned)	4th 1948 as follows:	, 19
MONTANA (State)		RBON (County)	DRY CREEK (Field)
Well No5	(m. sec.)			
The well is located660	ft. { S. } of South	line and660ft.	} E. } ofline	of Sec2
	floor above the sea level i			
	DETAILS OF	PLAN OF WORK		
	ed depths to objective sands		d lengths of proposed of	easings; indi-

L.P. CHAPMAN WELL NO 5

After pulling rods and working with well for better than a month was unable to make well pump, so we pulled tubing and had Lane Wells make a log of well.

We now would like permmission to reperforate the liner in this well, it is all ready perforated from 5537' to 5615'

The following will be the perforations.

5467 to 5473 18 Shots 5480 5485 15 5490 5497 21 75 5535 5560

Approved March 5 1948	Company THE OHIO CITY ON ANY NEW /
Oil and Gas Well Division	Title Supt. AddressBridger, Montana

NOTE:-Reports on this Form to be submitted to the Superviser for Approval.



Client Representative

Multipurpose Coiled Tubing Service Report

Client Name

SERVICE TICKET #9103456

Job Date

PanCanadian Energy Resources Inc.					Billy Fr	oman	January 31, 2002						
Well	Data	134								ole a Not S			
SPI SHEEL HOUSE	01 5	Ca	sing	Tu	ubing	Fluid Pumped	Fluid Returns	Sand Returns	Coil Cycled	Soap (gal)	Travel	Location	Total
Name:	Chapman Dry Creek	Size (in)	Pressure (psi)	Size (in)	Pressure (psi)	(bbl)	(bbl)	(bbl)	(ft)	(gai)	Hours	Hours	Hours
Location:	5	6.6		2.4			0.0		2,600.0	8.00	0.5	4.0	4.5
Unit	S		and up on	its Own	7 Nig Dow	n / Move to	TOXE TYON						
Unit No	Туре		District		Arrival		Departure		Bin#			Material Transf	fer No
2251	Pickup		221	Jan 31	, 02								
										-	-		
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Service	Comments	

Additional Information	
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	V 83 V



Multipurpose Coiled Tubing Service Report

SERVICE TICKET #9103461

Client Name			Client Repr	resentative			Job Date	Job Date					
PanCana	dian Energy Res	Billy Fr	oman			Febru	uary 4, 20	02					
Well	Data	9		i la									
Name:	Dry Creek	Casing	_	ubing	Fluid Pumped	Fluid Returns	Sand Returns	Coll Cycled	Soap (gal)	Unit Travel	Unit Location	Crew Travel	
15-216-8	A STY CIGGR	Size Pressure (in) (psi)	Size (in)	Pressure (psi)	(bbl)	(bbl)	(bbl)	(ft)		Hours	Hours	Hours	
Location:	Chapman 5	6.6	2.4			4.0				1.0		2	
Tool and Tr	eatment Summary:	Pull Onto Location Had 40.0 psi / Rig Down / Move it to N	up to Re	eturn Off T	ubing / Ope	ned it up / It	Lifted 4.0 l	I / Pressul bbls of Flu	re up Dowr uid & Dried	n Annulus up Pretty	s Side Un y Good / I	til Tubin Rig CTU	
Arrival Time	3 :			Departure	Time:								
Unit		erest est u		1 to 1 to 1 to 1			7 7 4 9						
Unit No	1 i t S Unit No Type District			Arrival		Departure		Bin#		Τ,	Material Transfer No		
2251	Pickup	221	Feb 4,	02	_								
7710	Shallow Coil		Feb 4,	1									
7710	Ondion Co.		, 52										
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	+												
	+												
			+										
Serv	ice Comm	nents											
		10					Total Control						
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009-60035-



Multipurpose Coiled Tubing Service Report

SERVICE TICKET #9103130

Client Name					Client Rep	resentative			Job Date	е			
PanCanadian Energy Resources Inc.						oman			Febru	uary 8, 20	02		
Well	Data					11 2 2 2 2 2 1 K							
Name:	Dry Creek	Cas	sing	Т	ubing	Fluid Pumped	Fluid Returns	Sand Returns	Coil	Soap	Unit	Unit	Crew
Name:	Dry Creek	Size (in)	Pressure (psi)	Size (in)	Pressure (psi)	(bbl)	(bbl)	(bbl)	Cycled (ft)	(gal)	Travel Hours	Location Hours	Travel Hours
	Chatman 5					0.0	0.000	0.0					2.
Tool and	Treatment Summary:	Mobilize	to Well / R	Rig up H	lose Job D	own Tubing	/ Pressure (up / Run Ho	ose Job D	own Casir	g / Circu	late up Tu	ubing
Arrival Tir	me:				Departure	Time:							
Unit				-				1000					
Unit No	Туре		District		Arrival		Departure		Bin#			Material Trans	fer No
2251	Pickup		221	Feb 8	00		•						
						_					-		
7710	Shallow Coil		221	Feb 8	, 02		-				_		
												-	
						_							
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Serv	ice Comm	ents											
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										809 NOT 12 13 14 15 76 NOT 12 15 N	leceived of Oil & O	ved Gas Cons. Billings	2829

Altipurpose Coiled Tubing ervice Report



MT DIL AND GAS

SERVICE TICKET

9103257

Client Name			10.00			er vice C						"_//	1000
P.C. E.					C	fient Repr						Job Daje	
	1000		146,00	E-14. No.	(AL 950 -0	PAUL		Deka	re			4/-	16-00
Name: ChADMAN #	_ <u> </u>	Casing Size Pres	santo S	Tubing	1	Fluid	Fluid	Cr. 184 8	App. 1880 -	15 17 1	图, 图 初.	. The bright	600
Location SWSW2-TTS-0)	(in) (n		(In) (P	sure P	(bbl)	Return (bbl)	B Rot		cled (ft)	T quo?	revel Loce	ilon To
Tool and Treatment Summary:	Λ.	3/8	/	3/4				1		(11)	(801)	ours Hou	irs Ho
For Poly teniler		ve 4	o lo	cation	V . C	Lai	1)-11	1	-17			.5	14.
D. THERE	LOA	d 201	4 0	uto t	RAILER	2	, 0	1	mit	_5	witch	Side	3 P00
Kig-up RUN DO	14 1	W L	ale	11	. /	$\overline{}$	LOA	00	- V	mp	CTU	-500	+ un
UNIT & hose the	40	6/00	Dlie		1		92	10	K.B	· in	luded	Rio	dou
/			119		000	-po	4	/_			,	7	900
Name:	61	Casing		Tubing	F	luid							
Location:	Si (li	re Press	Ure 31:	Prens	ure Pur		Fluid Returns (bbi)	San Retur (bb)	ne Cycl	ed Sc	sap Train	vel Location	
							(001)	(66)	(ft) (3	al) Hou	Hours	Tota Hour
Tool and Treatment Summary:													
Name:		Casing											
	Size	Prossur	e Size	Pressur	Flui Pump		Fluid	Sand	Coil	_			
ocation:	(in)	(P\$i)	(in)	(psl)	(bb)		eturne (bbl)	Returns (bbl)	Cycles	Soa (gai	Trave		Total
ool and Treatment Summary:							-	,,,,	(ft)	(80)	Hours	Houre	Hours
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ime:		Casing	1	fubling									
cation:	Size (in)	Pressure (pal)	Size (In)	Pressure (psi)	Pumper	Ret	una uld	Sand Returns	Coil	C	T		
				1081	(bbi)	(b)	bi)	(bbl)	Cycled (ft)	Soap (gal)	Travel Hours	Location Hours	Total Hours
ol and Treatment Summary:													-10019
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										/ DX	-	10	
ne:	Ca	sing						_	/-	2	T		TE
ation:	Size (In)	Pressure (psi)	Size	Pressure	Fluid	Fluid		Sand	Coil	· ,	DCT 2	002	16
	T		(in)	(Pal)	Pumped (bbl)	(bbl)	Re (turns	Coil Cycled (ft)	Sosp (gal)	Travel Hourn	Location Hours	Total
and Treatment Summary:									-	10	310 01 01 8	Lac Lons.	Hours
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ornel and Equipment:	Mr. valid steel					_	_						
DAVID Nickalor	<u> </u>		3000 C	10 mg 10 mg	Aller Del Av	C. 186. 186.	7070 - T 100 - 1 - 1 - 1						
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1 8 2006

Sanjel (USA) Inc. 200, 505 - 2nd Street SW

200, 505 - 2nd Street SW Calgary, Alberta, T2P 1N8 Telephone: (403) 269-1420



9122056

This service ticket is not an invoice; pricing is subject to review and change without notice

Client Name	Well Name C:		is subje	ct to review and	change withou	t notice.	
Address Saga Petroleum V		apman :	5	Job Date	7-12-06		
410 17Th ST	Location 5'6C'	T75. 6		Service Point Noo H			
Suite 1520	Client Represent	acry (9	pser	Pricing Area	State	77	
Province/State Postal/Zip Con Denver 60 8020	de Job Type MPC	State	County	AFE/PO #	, , , , ,	11	
Denvey CO 8020. District Service, Equipment & Material	<u>م</u> ــــــــــــــــــــــــــــــــــــ	17 Code	CSrb Quantity	Unit Price			
	MICHIGAL SERVICE TO LASP		Quantity		Amoun	SLAWS:	
(10	ild	3000)	43500	435	00 ,	
	Correl	2001	8	17200	1376	00	
42 3% (hel surcha	rge	N/A	3%	5433	54	37	
	J						
	-			IELD ESTIMATE	18/5	77	
Well Data:		1000 TO MINE	Land Control	ILLD ESTIMATE	1865		
Multipurpose Coiled Size Pressur (in) (psi)		Fluid Fluid Pumped Return (bbl) (bbl)	ns Returns Cyc	oil Soap Ur cled (gal) Ho	vel Location	Crew Travel	
Tubing Service Report 4/2 -	13/4 -	(bbl) (bbl)	(bbl) (1	ft) (gai) Hoi		Hours	
Tool and Treatment Summary:							
Kig to we	4 try	to b	oull fi	abina	Daly		
> Striped out @ S	instace	Ric	down	7600	d ho	me	
<u> </u>		3					
					1+		
Personnel and Equipment:	Zan eezeezee		Section of the section of the	okato artuatiwa		100000	
Employees Barry Boyce			Units	2545	MATERIA	L	
Curtis Bilger			フ	710	TRANSFE	ER	
Service Comments:					NUMBER	IS	
Arrival Time: 00	Departure Time:	1100					
		AP	K FIELD	ESTIMATE		•	
	☐ Cementing	A SA SAN THE S	Cementing - Rem	P			
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