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Locate Well Correctly



File in duplicate on Fee and Patented lands and in quadruplicate on State and School lands, with  
 OFFICE OF DIRECTOR  
 OIL AND GAS CONSERVATION COMMISSION,  
 STATE OF COLORADO

LOG OF OIL AND GAS WELL

Field Graylin Company The Texas Company  
 County Logan Address Box 1346 - Casper, Wyoming  
 Lease J. H. Monroe NCT-2  
 Well No. 1 Sec. 12 Twp. 8N Rge. 54W Meridian 6th State or Pat. Pat.  
 Location 2310' Ft. (N) of So. Line and 330 Ft. (W) of E line of SE 1/4 Elevation 4224 GR  
 (Derrick floor relative to sea level) 4234 KB

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed [Signature]  
 Date April 28, 1953 Title District Superintendent

The summary on this page is for the condition of the well as above date.  
 Commenced drilling Sept. 3, 19 51 Finished drilling Sept. 20, 19 51

OIL AND GAS SANDS OR ZONES

No. 1, from None to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

SIZE	WT. PER FOOT	MAKE	WHERE LANDED	NO. OF SKS. CEMENT	STOOD HOURS	PRESSURE TEST PSI
10 3/4"	32.75		170.67KB	150	36	500

COMPLETION DATA

Total Depth 5300 ft. Cable Tools from \_\_\_\_\_ to \_\_\_\_\_ Rotary Tools from 0 to 5300'  
 Casing Perforations (prod. depth) from \_\_\_\_\_ to \_\_\_\_\_ ft. No. of holes \_\_\_\_\_  
 Acidized with \_\_\_\_\_ gallons. Other physical or chemical treatment of well to induce flow \_\_\_\_\_  
 Shooting Record \_\_\_\_\_  
 Prod. began P & A 19 \_\_\_\_ Making \_\_\_\_\_ bbls./day of \_\_\_\_ A. P. I. Gravity Fluid on \_\_\_\_\_ Pump   
 Tub. Pres. \_\_\_\_\_ lbs./sq. in. Csg. Pres. \_\_\_\_\_ lbs./sq. in. Gas Vol. \_\_\_\_\_ Mcf. Gas Oil Ratio \_\_\_\_\_ Choke.   
 Length Stroke \_\_\_\_\_ in. Strokes per Min. \_\_\_\_\_ Diam. Pump \_\_\_\_\_ in.  
 B. S. & W. \_\_\_\_\_ % Gas Gravity \_\_\_\_\_ BTU's/Mcf. \_\_\_\_\_ Gals. Gasoline/Mcf. \_\_\_\_\_

WELL DATA

Indicate (yes or no) whether or not the following information was obtained.  
 Electrical Log Yes Date 9-15- 19 53 Straight Hole Survey Yes Type TOTCO  
 \_\_\_\_\_ Date \_\_\_\_\_ 19 \_\_\_\_\_ Other Types of Hole Survey \_\_\_\_\_ Type \_\_\_\_\_  
 Time Drilling Record Yes  
 Core Analysis Yes Depth 4909 to 4915  
4994 to 5009  
5010 to 5063

FORMATION RECORD

Show all formations, especially all sands and character and contents thereof.

FORMATION	TOP	BOTTOM	REMARKS

COGC: U of C:  
 TTF: WR: MME:  
 Colo. Sch. Mines

(Continue on reverse side)

## LOG OF WELL

SHEET No. 2

12-7N-54W

District Casper-Graylin Owner The Texas Company Farm J.E. Monroe NCT-2 Well No. 1

FORMATION		AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
Tertiary	Surface	883				Gravels and alluvium of gray and pink quartz rounded pebbles.
Pierre Shale	883	3231				Dark gray to black clay shale, few calcareous beds, soft and gummy, with stringers of limestone and fish scales in places.
Niobrara (Lime)	4114	388				Shale, limey, black, brownish black looking where abundant forams giving speckled appearance with their tiny white spots. Some shale slightly silty. Also, plain and soft blue gray shale alternating. Bentonite, pyrite specks.
Carlisle Shale	4502	137				Shale, sandy and silty shale, dark gray to black, sandy to very fine sandstone streaks gray peppered with black specks, calcareous soft. Also, limestone stringers, light orange, silty soft, and bentonite. Shales are calcareous and in part white speckled with forams, and few fish fragments.
Greenhorn (Limestone)	4639	09				Limestone, brown, dense hard, cherty looking. Sandy limestone to very fine and limey sandstone hard, tight, and gray.
Graneros Shale	4648	247				Shale, silty siltstone, black, much speckled with forams. Silty lime stringers. Plain shale dark gray, much calcareous. In lower portion few thin sandstone beds, gray very fine, speckled with glauconite and black specks.
Dakota Sandstone						
"D"	4895	97				Sandstone, very fine to fine and well sorted grains angular to subangular, light gray where barren, mostly noncalcareous, little or no cementation.
"J"	4902	308				
Driller's T. D.	5300					
Schlumberger T.D.	5302					

# LOG OF WELL

SHEET No. 3

12-8N-5-16W

District Casper-Graylin Owner The Texas Company Farm J.H. Monroe NCT-2 Well No. 1

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
<u>FORMATION TOPS FROM SCHLUMBERGER ELECTRIC LOG</u>					
Tertiary	Surface				
Pierre	883				
Niobrara	4114				
Fort Hayes	4418				
Carlisle	4502				
Greenhorn Lime	4639				
Graneros	4648				
Dakota "D" Sands	4895				
Base Upper Sands	4924				
Dakota "J" Sands	4992				
Driller's T. D.	5300				
Schlumberger T.D.	5302				
<u>DRILL STEM TEST</u>					
DST #1	September 11, 1951 Tested 4896 - 4935 Tool open 1 hr. Tool opened with small blow which died in 10 min. Recovered 50' of slightly water cut drilling mud IFF-100#, PFP-150#, SP- for 15 min. 950#.				
DST #2	September 13, 1951 Tested 4994 - 5009 Tool open 1 hr. Tool opened with fair blow which lasted length of test with Gas to Surface in 1 hr. too small to measure. Recovered 100' of gas cut mud with trace of oil and 50' of oil and gas cut mud, est. 3% oil IFF-0#; PFP-250#; SP-700#				
DST #3	September 14, 1951 Tested 5009 - 5024 Tool open 1 hr. Tool opened with med. blow which lasted length of test. Gas to surface in 45 min. too small to measure. Recovered 110' of oil and gas cut mud. No free oil, no indication of water IFF-75#; PFP-125#; SP for 15 minutes 1200#				
DST #4	September 16, 1951 Tested 5049 - 5072 Tool open 1 hr. Tool opened with fair blow which gradually decreased to a weak blow at end of test Recovered 1380' of very slightly gas cut fresh water, no indication of oil. IFF-0#; PFP-485#; SP for 15 minutes - 1026#				

BEST IMAGE AVAILABLE

## LOG OF WELL

SHEET No. 4

12-8 N-5460

District	Owner	Farm	Well No.		
Casper-Graylin	The Texas Company	J.H. Monroe NCT-2	1		
FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
<u>CORE RECORD</u>					
<u>Core #1, from 4895' to 4915'</u>					
4895 - 4909	14				<u>Cut 20': Rec. 20'</u> Shale black with thin light gray sandy laminations
4909 - 4912	3				Sand stone light gray porous, no shows
4912 - 4915	3		BEST IMAGE AVAILABLE		Sand stone light gray very fine and silty very hard, no shows
<u>Core #2, from 4915' to 4935'</u>					
4915 - 4916	1				<u>Cut 20': Rec. 20'</u> sd very fine, hard tight, no shows
4916 - 4917	1				sd very fine & hard with shale stringers, no shows
4917 - 4920	3				sd and shale, no shows
4920 - 4935	15				shale rotten, no shows
<u>Core #3, from 4994' to 5009'</u>					
4994 - 4996	2				<u>Cut 15': Rec. 15'</u> sh with sdy laminations slight odor
4996 - 4997	1				sh black
4997 - 5003	6				sd hard tight fair oil staining v/fn gr
5003 - 5007	4				sh black
5007 - 5009	2				sd hd tight, fair oil stain
<u>Core #4, from 5009' to 5024'</u>					
5009 - 5017	8				<u>Cut 15': Rec. 15'</u> ss, f.g. hd, fair vis. por., good odor, good stain w/streaks of sh, blk, hd, fissile
5017 - 5024	7				sh as ab. interlem w/ ss, lt. gy. f.g., hd, tite, occasional tr. of stain (bleeding)
<u>Core #5, from 5024' to 5072'</u>					
5024 - 5033	9				<u>Cut 48': Rec. 40'</u> blk shale with sandy laminations.
5033 - 5034	1				sd stone light gray porous soft appears wet

## LOG OF WELL

SHEET No. 5

12-8N-54W

District Casper-Graylin Owner The Texas Company Farm J.H. Monroe HCT-2 Well No. 1

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
5034 - 5039	5				Blk shale with sd laminations
5039 - 5047	8				slk shale
5047 - 5048	1				sd stone shaley brownish gray hard tight
5048 - 5052	4	BEST IMAGE AVAILABLE			sd stone light gray brown oil staining good odor, soft, porous, appears wet
5052 - 5058	6				sd stone oil stain, brown
5058 - 5061	3				sd stone light gray
5061 - 5064	3				sd stone hard, tight
5064 - 5072	8				Lost

PLUGGING AND ABANDONING

Plug #1 - 5300' 22 Sax Cement

Plug #2 - 5090' 80 Sax Cement

Plug #3 - 200' 38 Sax Cement

Plug #4 - In top of surface casing with 4" x 10' Pipe Marker 5' above ground level with 10 sax cement.