

LEASE OR PERMIT TO PROSPECT
N. Mex. Fed. Deep Unit 13-B

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

LOCATE WELL CORRECTLY

Company Tidewater Oil Company Address Box 547, Hobbs, N. Mex.

Lessor or Tract N. Mex. Fed. Deep Unit 13-E Field Undesignated (Dakota) N. Mex. State

Well No. 1 Sec. 13 T. 29N R. 11W Meridian NMPM County San Juan

Location 2310 ft. N. of N Line and 990 ft. E. of W Line of Sec. 13 Elevation 5621
(Derive floor relative to sea level)

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.

Original Signed By: B. D. FORD

Signed _____ Title Area Engineer

Date 6-30-61

The summary on this page is for the condition of the well at above date.

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Commenced drilling 5-21-61, 1961 Finished drilling 6-7-61, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6390 to 6422 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

No. 3, from -----
No. 1, from -----
No. 2, from -----

CASING RECORD

PERFORATED									Purpose
Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Surface
12-3/8	10.5	8	Armco	122	Temp. 840	122	6390	6422	122
4-1/2	9.5	8	J-53	5742	Guide	5742	6390	6422	5742

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	132	150 sk.	Pump		
4-1/2	6632	600 sk.	Pump		

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----
Adapters—Material ----- Size -----

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

TOOLS USED

Rotary tools were used from 0 feet to 6635 feet, and from _____ feet to _____ feet.

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

DATES	
June 30, 19 61	Put to producing June 29, 19 61

The production for the first 24 hours was ----- barrels of fluid of which ----- % was oil; ----- % emulsion; ----- % water; and ----- % sediment. Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours 3697,000

Gallons gasoline per 1,000 cu. ft. of gas No facilities

Rock pressure, lbs. per sq. in.

EMPLOYEES of Great Western Drig. Co.

J. J. Clary _____, Driller
Albert Early _____, Driller

FORMATION RECORD

[illegible]

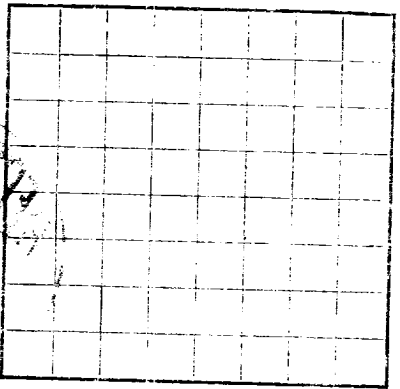
[OVER]
 INFORMATION RECORD—Continued

1 - File
1 - American
1 - Midland
1 - (W) Aired
3 - USGS - Washington

U.S. LAND OFFICE
SERIAL NUMBER
APPROVAL EXPIRES 12-31-60
BUDGET FUNDING NO. 42-14354A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

Company: Tidewater Oil Company
Lessor or Tract: N. Mex. Fed. Recl. Unit 13-11
Well No.: 1
Location: Sec. 13 T. 23N R. 11W Meridian
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: B. D. FORD
Title: Area Engineer
Date: 6-30-61

The summary on this page is for the condition of the well at above date.
Commenced drilling: 5-21-61
Finished drilling: 6-7-61

OIL OR GAS SANDS OR ZONES

No. 1 from 6330 to 6435
No. 2 from 6435 to 6530
No. 3 from 6530 to 6635
No. 1 from 6635 to 6730
No. 2 from 6730 to 6835
No. 3 from 6835 to 6930
No. 4 from 6930 to 7035
No. 5 from 7035 to 7130
No. 6 from 7130 to 7235
No. 7 from 7235 to 7330
No. 8 from 7330 to 7435
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No. 10 from 7530 to 7635
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MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test 6-11-61
Company Tidewater Oil Co. Lease N. Mex. Fed. Deep Unit 13-N Well No. 1
(13-N)
Unit H Sec. 13 Twp. 29N Rge. 11W Purchaser El Paso Nat. Gas Co.
Casing 4-1/2 Wt. 11.6 I.D. _____ Set at 6432 Perf. 6390 To 6422
Tubing 2-3/8 Wt. 4.7 I.D. _____ Set at 6358 Perf. _____ To _____
Gas Pay: From 6390 To 6422 L _____ xG _____ -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 6-7-61 Packer No Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>2006</u>		<u>2009</u>		
1.	<u>2"</u>	<u>3/4</u>	<u>318</u>			<u>322</u>		<u>739</u>	<u>86</u>	<u>3</u>
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>12.3650</u>		<u>330</u>	<u>0.9799</u>	<u>0.9944</u>	<u>1.038</u>	<u>3697</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

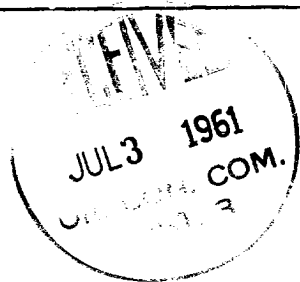
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2021 P_c 4084

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.						<u>564</u>	<u>3520</u>		<u>0.372</u>
2.									
3.									
4.									
5.									

Absolute Potential: 4133 MCFPD; n 0.75

COMPANY Tidewater Oil Company
ADDRESS Box 547, Hobbs, N. Mex.
AGENT and TITLE Jack Liles
WITNESSED Jack Liles
COMPANY Unitex Engineering.

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .