

Form 9-330

U. S. LAND OFFICE

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company _____ Address _____
Lessor or Tract _____ Field _____ State _____
Well No. _____ Sec. _____ T. _____ R. _____ Meridian _____ County _____

Location _____ ft. {N.} of _____ Line and _____ ft. {E.} of _____ Line of _____ Elevation _____
(Derrick 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.

Signed _____
Date _____ Title _____

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

Commenced drilling _____, 19____ Finished drilling _____, 19____

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

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

IMPORTANT WATER SANDS

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER _____
JUN 13 8 55 AM '48
LEASE OR PERMIT TO PROSPECT 068035

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company THE DEVONIAN COMPANY Address Post Office Box 1379
Lessor or Tract Landreth Field Sawyer Pool State New Mexico
Well No. 1 Sec. 18 T. 9-S R. 38-W Meridian NMPM County Lea

Location 660 ft. {S.} of N. Line and 1980 ft. {E.} of W. Line of NE/4 NW/4 Elevation 3934
(Derrick 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.

Signed [Signature]
Date October 11, 1951 Title Engineer

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

Commenced drilling April 13, 1948 Finished drilling May 15, 1948

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from (G) 4938 to 4943 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 5002 to 5003 No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of steel	Cut and pulled from	Perforated	Purpose
13-3/8	27.3	8	Armco	80'	on bottom			
13-3/8	32	8	Armco	230'	None			
8-1/2	15.8	8	Armco	1487'	None			
2	4.7	J&L	J&L	4976'	11"			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	301' 3"	275	Halliburton	33	None
8-3/4	4888.09'	300	"	36	10 Tons

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____
Adapters—Material None Size _____

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from 0 feet to 5015 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

April 13, _____, 1948 Put to producing June 1, _____, 1948

The production for the first 24 hours was _____ barrels of fluid of which 0 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 2750 Gallons gasoline per 1,000 cu. ft. of gas no

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller Milhoan Drilling Co. _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche
20	240	220	Sand and shells
240	250	10	Shale
250	322	72	Shale and shells
322	400	78	Blue Shale
400	910	510	Red Rock
910	2060	1150	Red Rock and shale
2060	2290	230	" "
2290	2440	150	Anhydrite
2440	2690	150	Sale
2690	2860	170	Anhydrite and salt
2860	3010	150	Red Rock, Anhydrite and shells
3010	3474	464	Anhydrite and shells
3474	3675	201	Red Rock, Anhydrite and shells
3675	3800	125	Red Rock, Anhydrite and shells
3800	3965	165	Anhydrite
3965	4210	245	Anhydrite and Lime
4210	4935	725	Lime
4935	4943	8	"
4943	4950	7	"
4950	4970	20	"
4970	4981	11	"
4981	4987	6	"
4987	4989	2	"
4989	5003	14	"
5003	5011	8	"
5011	5017	6	"
5017	5015	2	"
5015	4983	32	"

FORMATION

FROM	TO	TOTAL FEET	FORMATION RECORD
0-10	10-20	10	SANDSTONE
10-20	20-30	10	SANDSTONE
20-30	30-40	10	SANDSTONE
30-40	40-50	10	SANDSTONE
40-50	50-60	10	SANDSTONE
50-60	60-70	10	SANDSTONE
60-70	70-80	10	SANDSTONE
70-80	80-90	10	SANDSTONE
80-90	90-100	10	SANDSTONE
90-100	100-110	10	SANDSTONE
100-110	110-120	10	SANDSTONE
110-120	120-130	10	SANDSTONE
120-130	130-140	10	SANDSTONE
130-140	140-150	10	SANDSTONE
140-150	150-160	10	SANDSTONE
150-160	160-170	10	SANDSTONE
160-170	170-180	10	SANDSTONE
170-180	180-190	10	SANDSTONE
180-190	190-200	10	SANDSTONE
190-200	200-210	10	SANDSTONE
200-210	210-220	10	SANDSTONE
210-220	220-230	10	SANDSTONE
220-230	230-240	10	SANDSTONE
230-240	240-250	10	SANDSTONE
240-250	250-260	10	SANDSTONE
250-260	260-270	10	SANDSTONE
260-270	270-280	10	SANDSTONE
270-280	280-290	10	SANDSTONE
280-290	290-300	10	SANDSTONE
290-300	300-310	10	SANDSTONE
300-310	310-320	10	SANDSTONE
310-320	320-330	10	SANDSTONE
320-330	330-340	10	SANDSTONE
330-340	340-350	10	SANDSTONE
340-350	350-360	10	SANDSTONE
350-360	360-370	10	SANDSTONE
360-370	370-380	10	SANDSTONE
370-380	380-390	10	SANDSTONE
380-390	390-400	10	SANDSTONE
390-400	400-410	10	SANDSTONE
400-410	410-420	10	SANDSTONE
410-420	420-430	10	SANDSTONE
420-430	430-440	10	SANDSTONE
430-440	440-450	10	SANDSTONE
440-450	450-460	10	SANDSTONE
450-460	460-470	10	SANDSTONE
460-470	470-480	10	SANDSTONE
470-480	480-490	10	SANDSTONE
480-490	490-500	10	SANDSTONE
490-500	500-510	10	SANDSTONE
500-510	510-520	10	SANDSTONE
510-520	520-530	10	SANDSTONE
520-530	530-540	10	SANDSTONE
530-540	540-550	10	SANDSTONE
540-550	550-560	10	SANDSTONE
550-560	560-570	10	SANDSTONE
560-570	570-580	10	SANDSTONE
570-580	580-590	10	SANDSTONE
580-590	590-600	10	SANDSTONE
590-600	600-610	10	SANDSTONE
600-610	610-620	10	SANDSTONE
610-620	620-630	10	SANDSTONE
620-630	630-640	10	SANDSTONE
630-640	640-650	10	SANDSTONE
640-650	650-660	10	SANDSTONE
650-660	660-670	10	SANDSTONE
660-670	670-680	10	SANDSTONE
670-680	680-690	10	SANDSTONE
680-690	690-700	10	SANDSTONE
690-700	700-710	10	SANDSTONE
700-710	710-720	10	SANDSTONE
710-720	720-730	10	SANDSTONE
720-730	730-740	10	SANDSTONE
730-740	740-750	10	SANDSTONE
740-750	750-760	10	SANDSTONE
750-760	760-770	10	SANDSTONE
760-770	770-780	10	SANDSTONE
770-780	780-790	10	SANDSTONE
780-790	790-800	10	SANDSTONE
790-800	800-810	10	SANDSTONE
800-810	810-820	10	SANDSTONE
810-820	820-830	10	SANDSTONE
820-830	830-840	10	SANDSTONE
830-840	840-850	10	SANDSTONE
840-850	850-860	10	SANDSTONE
850-860	860-870	10	SANDSTONE
860-870	870-880	10	SANDSTONE
870-880	880-890	10	SANDSTONE
880-890	890-900	10	SANDSTONE
890-900	900-910	10	SANDSTONE
900-910	910-920	10	SANDSTONE
910-920	920-930	10	SANDSTONE
920-930	930-940	10	S

of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or balling. If the well has been dynamited, give date, size, position, and number of shots. If the well was "sidedrilled," or left in the well, give its size and location. If there were any changes made in the casing, state fully, and if any casing was changed, state in detail the dates of reworking, together with the reasons for the work and its results. Please state in detail the history of the well. Please state in detail the dates of reworking, together with the reasons for the work and its results. 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 balling.

HISTORY OF OIL OR GAS WELL

Planned to drill well to the first porosity in the San Andres lime or to the 275-3x Lone Star cement. 15-30' casing was run and cemented at 800-900' w/ 275-3x Lone Star cement. 15-30' casing was tested for 1 hr. at 500' pressure April 18, 1948. Casing record.

Pusher for Williams Drilling Company, and H. K. Kofke, for the Devontan Company. This well was running approximately the same as the nearest well one mile N. W. change of plans" filed 5-1-48. Instead of running 7 1/2" casing we drilled the well in by continuing with 6" casing. Hard formation, had the cores analyzed, submitted a complete report to the U.S.G.S. office at Roswell. If the reports indicated that we had a well, casing would be run and cemented w/ enough cement to bring it to the base of the sale. Casing was to be set in or near the top of the pay section.

Change of plans: ran 4800' of 5-1/2" casing instead of 7 1/2" and cemented w/ 500' as per verbal agreement with Mr. Lurrell 4-10-48. To test water shut-off. Tested casing for water shut-off at 8:00 AM Thursday May 20, by pressure. No shoot or leak. All swab well natural, then acidize in 2 stages w/ 5000 gallons of 10% HCl. 5-22-48

Notice of intention to plug back: well swabbed 20 obs. of water w/ T.O.D. 5. 5015'. All plug back 30' to approximately 1600' using Halliburton. Plug back was authorized over telephone by Mr. Cantelero 5-22-48.

The information given by Mr. Cantelero is a confidential one and correct record of it is being kept in the office of the U.S.G.S. at Roswell. 5-22-48

Hydrofracture, well making 1 barrel of water per hour. Delayed to be coming from upper formation.

5-26-48 - 75-3x Lone Star cement. 15-30' casing was run and cemented at 800-900' w/ 275-3x Lone Star cement. 15-30' casing was tested for 1 hr. at 500' pressure April 18, 1948. Casing record.

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Hydrofracture, well making 1 barrel of water per hour. Delayed to be coming from upper formation.

to perform intervention to re-drill or repair well: This was notice of intention
5-17/84 casing to be perforated from 2508 to 2510 using 100 sacks of common
cement, setting and squeezing with 50 sacks every 8 hours until cement can be
no longer pumped into formation

1-16-49 - Subsequent report of retubing or repair: 10-21-49 - string up pulling
unit, killing well with 550 barrels fresh water. Pulling tubing. 10-22-49 -
run Baker 2-B-Jarvisium model K series B Bridging Plug for 71 OD 2 1/2 Casing.
Set at 4873'. This plug failed to set, fell to bottom. Ran second plug, set
at 4873', tested at 1000" pressure for 30 minutes - Tested OK. Perforated 3 -
14 5/8" holes at 4823' to 4825' then Baker 3-A Model Jarvisium Alloy
Cement retained on tubing. Set at 4287' - Pumped in information at 1500". First
stage squeezed 175 sacks Trinity Negation information, displaced with
16 barrels water, 3 barrels to clear perforations at 1150" pressure. Reversed
out and let set 12 hours. 10-23-49 - Second stage displaced 50 sacks Lone Star
Cement into formation at 1250" press. Displaced w/ 16 barrels water, 3 bbls. to
clear perforations

One Star Bulk Cement at 1800# - displaced w/ 9 bbls. water and about 1/2 ex cement.
 Running down casing, unscrewed setting tool; killed well. Run 10-24-49 - finished
 running, starting down pulling unit. Moved to surface circulating rig at 10-25-49 -
 replaced and drilled plug. Drilling cement to 2360'. Run tubing to bottom plug.
 OK. Drilling bottom casing plug. Pulling tubing, lay down flash joint and bit.
 Displaced water with oil. 10-49 - mixing up to slab.
 Killing well with fresh water. Rigged
 and pulled tubing. Ran Baker 2-1/2" Magnesium Alloy drilling plug, lost at 4831'.
 Tested plug at 1000# for 30 minutes. Tested OK. Perforated 3 - 15/32" holes at 2370' to
 11-1-49 - set Baker Cement Retainer at 2374'. Pumped in formation at 1250#.
 Second stage, 11-1-49 - Squeezed 100 sacks Lone Star Bulk Cement into formation at 1150#
 casing, displaced with 12 bbls. water. 2 bbls. to clean perforations, reversed out
 and let set 12 hours. Second stage - 11-1-49 - Squeezed 50 ex Lone Star Bulk Cement into
 formation at 1250' pressure. Displaced w/ 12 bbls. water.

reversed out and let set 12 hours. 11-2-49 - Third stage, squeezed 50 sx lone star Bulk
 cement at 2100" pressure, displaced w/ 9 bbls. After, about 1 sx cement, reversed out,
 and let set 12 hours. 11-4-49 - Bullied tubing and tearing down rig. 11-4-49 - Working in and
 setting up reverse circulating rig. 6-49 - Drilling retainer and cement. Tested at 1800# for 30 minutes, dropped to 1450#.
 Allowed the perforations were leaking. 6-49 - Perforated 2 - 15/32" holes from 2310' to 2311'. Set Baker Cement retainer at
 2309'. Squeezed 50 sx cement. Let set 12 hrs. 6-49 - Second stage, squeezed 50 sx cement. Cleared tubing w/ 9 barrels water.
 6-49 - Drilled retainer and cement. Tested at 1800#. Dropped to 1425#. Showed perforations were still leaking. 10-49 - ran Halliburton DR Packer at 2369'. Squeezed 55 sx cement w/ 100# salt, added
 to water. 12-49 - Drilled retainer and cement. 12-49 - Tested casing at 1800# for 30 minutes. Tested OK. Drilled bridge plug.

19-49 - Swapping well, flowing OK.
Circulated to ID 49831.