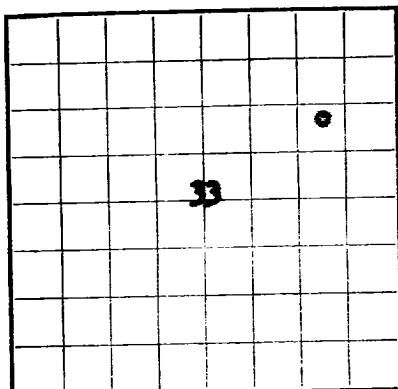


Santa Fe
U. S. LAND OFFICE
SERIAL NUMBER **SP 080721**
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
JAN 17 1962

LOG OF OIL OR GAS WELL

Company Southern Union Production Co. Address P.O. Box 808, Farmington, N.M.
Lessor or Tract Zachry Field Basin Dakota State New Mexico
Well No. 16 Sec. 33 T. 29N R. 10W Meridian N.M.P.M. County San Juan
Location 1510 ft. N of N Line and 1030 ft. E of E Line of Sec. 33 Elevation 5669
(Derrick floor relative to sea level)
The information given herewith is a complete and correct record of the well and all work done thereon
as far as can be determined from all available records.
Signed G. D. Roland, Jr.
Date January 6, 1962 Title Drilling Superintendent

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

Commenced drilling 11/30, 19 61 Finished drilling 12/18, 19 61

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from <u>6508</u> to <u>6522</u> <u>G</u>	No. 4, from <u>6402</u> to <u>6390</u> <u>G</u>
No. 2, from <u>6456</u> to <u>6486</u> <u>G</u>	No. 5, from <u>6326</u> to <u>6332</u> <u>G</u>
No. 3, from <u>6340</u> to <u>6410</u> <u>G</u>	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 casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated	From—	To—	Depth
8-5/8 27.2 RKB				125 sacks.	Circ.					
4-1/2 6583 RKB				1125 cu. ft.	Circ. (1st stage cut. w/325 cu. ft. 1st					
2-3/8 6386 RKB				Misc. Stage Collar @ 2112.35 ft. 2nd stage cut. w/600 cu. ft.						
				HYS-100						

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8 27.2 RKB		125 sacks.	Circ.		
4-1/2 6583 RKB		1125 cu. ft.	Circ. (1st stage cut. w/325 cu. ft. 1st		
2-3/8 6386 RKB		Misc. Stage Collar @ 2112.35 ft. 2nd stage cut. w/600 cu. ft.			
		HYS-100			

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
Perf. h shots/ft. 6508-6522, 6456-6486, 6340-6410, 6402-6390, 6326-6332, Sand-Water from w/30,000 20-40 sand and 34,524 gal. water.						
Perf. h shots/ft. 6340-6410, 6402-6390, 6326-6332, Sand-Water from w/30,000 20-40 sand and 31,206 gal. water.						
Perf. h shots/ft. 6326-6332, Sand-Water from w/12,500 20-40 sand and 20,000 gallons water.						

Rotary tools were used from 0 feet to 6570 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

January 2, 19 62 Put to producing _____, 19 _____

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

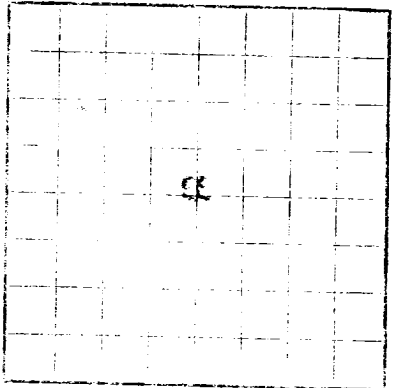
If gas well, cu. ft. per 24 hours 0 = 4001 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. CAOP = 5840 MCFPD. SITP 2010, SICP 2011

EMPLOYEES

Aggen Drilling Co., Driller T. B. Gage, Driller
A. F. Sample, Driller Morris Brown, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surf.	885	885	Wasatch
885	1640	755	Kirtland
1640	1910	330	Fruitland
1910	2000	90	Pictured Cliffs
2000	3470	1470	Lewis
3470	4600	1130	Mesa Verde
4600	6270	1670	Mancos
6270	6579	309	Dakota



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U.S. Land Office
Serial Number
Bureau of Reclamation

Company, Continental Oil Company
Address, 1000 North 10th Street, Tulsa, Oklahoma
State, Oklahoma
Well No., 15
Location, 1/2 Sec. 33, T. 33S. R. 33E. Meridian
The information given herewith is a complete and correct record of the well and all work done thereon as far as can be determined from all available records.
Signed, [Signature]
Date, January 1, 1933
The summary on this page is for the condition of the well at above date.
Commenced drilling, May 1, 1932
Finished drilling, May 1, 1932

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. of zone	From	To	Thickness
No. 1	from 100	to 105	5
No. 2	from 105	to 110	5
No. 3	from 110	to 115	5

IMPORTANT WATER SANDS

No. of zone	From	To	Thickness
No. 1	from 100	to 105	5
No. 2	from 105	to 110	5

CASING RECORD

Size	Length	Material	Remarks
8 in.	100	Steel	Set in 100 ft. of hole.
6 in.	100	Steel	Set in 100 ft. of hole.

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 same. If there were any changes made in the casing, state fully, and give date, position, and number of joints. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping operations. 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 operations.

HISTORY OF OIL OR GAS WELL

10-43094-2 U.S. GOVERNMENT PRINTING OFFICE

NAME OF LOG

Size	Length	Material	Remarks
8 in.	100	Steel	Set in 100 ft. of hole.
6 in.	100	Steel	Set in 100 ft. of hole.

PLUGS AND ADAPTERS

Size	Length	Material	Remarks
8 in.	100	Steel	Set in 100 ft. of hole.
6 in.	100	Steel	Set in 100 ft. of hole.

SHOOTING RECORD

Size	Length	Material	Remarks
8 in.	100	Steel	Set in 100 ft. of hole.
6 in.	100	Steel	Set in 100 ft. of hole.

DATES

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment.
It gas well, cu. ft. per 24 hours _____
Rock pressure, lbs. per sq. in. _____
Put to producing _____
Gallons gasoline per 1,000 cu. ft. of gas _____
Gravity, °Be. _____

EMPLOYEES

Name	Position
Driller	Driller
Driller	Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
100	105	5	Gravel
105	110	5	Sand
110	115	5	Clay
115	120	5	Sand
120	125	5	Clay
125	130	5	Sand
130	135	5	Clay
135	140	5	Sand
140	145	5	Clay
145	150	5	Sand
150	155	5	Clay
155	160	5	Sand
160	165	5	Clay
165	170	5	Sand
170	175	5	Clay
175	180	5	Sand
180	185	5	Clay
185	190	5	Sand
190	195	5	Clay
195	200	5	Sand
200	205	5	Clay
205	210	5	Sand
210	215	5	Clay
215	220	5	Sand
220	225	5	Clay
225	230	5	Sand
230	235	5	Clay
235	240	5	Sand
240	245	5	Clay
245	250	5	Sand
250	255	5	Clay
255	260	5	Sand
260	265	5	Clay
265	270	5	Sand
270	275	5	Clay
275	280	5	Sand
280	285	5	Clay
285	290	5	Sand
290	295	5	Clay
295	300	5	Sand
300	305	5	Clay
305	310	5	Sand
310	315	5	Clay
315	320	5	Sand
320	325	5	Clay
325	330	5	Sand
330	335	5	Clay
335	340	5	Sand
340	345	5	Clay
345	350	5	Sand
350	355	5	Clay
355	360	5	Sand
360	365	5	Clay
365	370	5	Sand
370	375	5	Clay
375	380	5	Sand
380	385	5	Clay
385	390	5	Sand
390	395	5	Clay
395	400	5	Sand
400	405	5	Clay
405	410	5	Sand
410	415	5	Clay
415	420	5	Sand
420	425	5	Clay
425	430	5	Sand
430	435	5	Clay
435	440	5	Sand
440	445	5	Clay
445	450	5	Sand
450	455	5	Clay
455	460	5	Sand
460	465	5	Clay
465	470	5	Sand
470	475	5	Clay
475	480	5	Sand
480	485	5	Clay
485	490	5	Sand
490	495	5	Clay
495	500	5	Sand
500	505	5	Clay
505	510	5	Sand
510	515	5	Clay
515	520	5	Sand
520	525	5	Clay
525	530	5	Sand
530	535	5	Clay
535	540	5	Sand
540	545	5	Clay
545	550	5	Sand
550	555	5	Clay
555	560	5	Sand
560	565	5	Clay
565	570	5	Sand
570	575	5	Clay
575	580	5	Sand
580	585	5	Clay
585	590	5	Sand
590	595	5	Clay
595	600	5	Sand
600	605	5	Clay
605	610	5	Sand
610	615	5	Clay
615	620	5	Sand
620	625	5	Clay
625	630	5	Sand
630	635	5	Clay
635	640	5	Sand
640	645	5	Clay
645	650	5	Sand
650	655	5	Clay
655	660	5	Sand
660	665	5	Clay
665	670	5	Sand
670	675	5	Clay
675	680	5	Sand
680	685	5	Clay
685	690	5	Sand
690	695	5	Clay
695	700	5	Sand
700	705	5	Clay
705	710	5	Sand
710	715	5	Clay
715	720	5	Sand
720	725	5	Clay
725	730	5	Sand
730	735	5	Clay
735	740	5	Sand
740	745	5	Clay
745	750	5	Sand
750	755	5	Clay
755	760	5	Sand
760	765	5	Clay
765	770	5	Sand
770	775	5	Clay
775	780	5	Sand
780	785	5	Clay
785	790	5	Sand
790	795	5	Clay
795	800	5	Sand
800	805	5	Clay
805	810	5	Sand
810	815	5	Clay
815	820	5	Sand
820	825	5	Clay
825	830	5	Sand
830	835	5	Clay
835	840	5	Sand
840	845	5	Clay
845	850	5	Sand
850	855	5	Clay
855	860	5	Sand
860	865	5	Clay
865	870	5	Sand
870	875	5	Clay
875	880	5	Sand
880	885	5	Clay
885	890	5	Sand
890	895	5	Clay
895	900	5	Sand
900	905	5	Clay
905	910	5	Sand
910	915	5	Clay
915	920	5	Sand
920	925	5	Clay
925	930	5	Sand
930	935	5	Clay
935	940	5	Sand
940	945	5	Clay
945	950	5	Sand
950	955	5	Clay
955	960	5	Sand
960	965	5	Clay
965	970	5	Sand
970	975	5	Clay
975	980	5	Sand
980	985	5	Clay
985	990	5	Sand
990	995	5	Clay
995	1000	5	Sand