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RECORDS OFFICE O.C.C.
 NEW MEXICO OIL CONSERVATION COMMISSION
 WELL COMPLETION OR RECOMPLETION REPORT AND LOG
 DEC 7 12 01 PM '65

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
E-8946	

1a. TYPE OF WELL						7. Unit Agreement Name	
b. TYPE OF COMPLETION OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> OTHER _____ NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						8. Farm or Lease Name	
2. Name of Operator						9. Well No.	
W. G. Smith, Jr.						1	
3. Address of Operator						10. Field and Pool, or Wildcat	
c/o Ernest A. Hanson, P. O. Box 1515, Roswell, New Mexico						Undesignated	
4. Location of Well							
UNIT LETTER <u>G</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM						12. County	
THE <u>East</u> LINE OF SEC. <u>32</u> TWP. <u>7-S</u> RGE. <u>35-E</u> NMPM						Roosevelt	
15. Date Spudded		16. Date T.D. Reached		17. Date Compl. (Ready to Prod.)		18. Elevations (DF, RKB, RT, GR, etc.)	
4/15/65		5/21/65		P&A 12/1/65		4234' DF	
20. Total Depth		21. Plug Back T.D.		22. If Multiple Compl., How Many		23. Intervals Drilled By	
4564' dolo.						Rotary Tools 0 - 4564'	
24. Producing Interval(s), of this completion — Top, Bottom, Name						25. Was Directional Survey Made	
None						No	
26. Type Electric and Other Logs Run						27. Was Well Cored	
GR/Acoust, Forxo, Guard & MOP						Yes	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
8-5/8"	24#	247'	12"	175 sx. circ.		None	
4-1/2"	11.6#	4558'	7-7/8"	250 sx. Incor		2950'	
29. LINER RECORD							
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	30. TUBING RECORD		
					SIZE	DEPTH SET	PACKER SET
31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
See attached "Daily Well Completion Report".				DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED	
						See attached "Daily Well Completion Report".	
33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping — Size and type pump)				Well Status (Prod. or Shut-in)	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
35. List of Attachments							
1 - "Daily Well Completion Report" per copy. 2 - GR/Acoustic logs.							
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.							
SIGNED <u>Harry F. Schubert</u>				TITLE <u>Agent</u>		DATE <u>Dec. 3, 1965</u>	

INSTRUCTIONS

This form is to be filled with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filled in quadruplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Northwestern New Mexico

Southeastern New Mexico

T. Any	2145	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	2230	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	2418	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	2520	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers		T. Devonian	T. Menefee	T. Madison
T. Queen		T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg		T. Montoya	T. Mancos	T. McCracken
T. San Andres	3679	T. Simpson	T. Gallup	T. Ignacio Qizte
T. Glorieta		T. McKee	T. Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	T. T.
T. Blinberry		T. Gr. Wash	T. Morrison	T. T.
T. Tubb		T. Granite	T. Todilto	T. T.
T. Drinkard		T. Delaware Sand	T. Entrada	T. T.
T. Abo		T. Bone Springs	T. Wingate	T. T.
T. Wolfcamp		T. T.	T. Chinle	T. T.
T. Penn.		T. T.	T. Permian	T. T.
T. Cisco (Bough C)		T. T.	T. Penn. "A"	T. T.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness In Feet	Formation	From	To	Thickness In Feet	Formation
0	2145	2145	Red beds.				
2145	2230	85	Anhy.				
2230	2418	188	Salt				
2418	2520	102	Anhy. & dolo.				
2520	3679	1159	Anhy., gyp & sd.				
3679	4564	885	Dolomite				
			Total Depth				
Core No. 1:	4544	51	Rec. 51' of gray dolo. w/50 throughout.				
4493	4544		No DST's.				

HOBBS OFFICE O. C. C.
DAILY WELL COMPLETION REPORT

DEC 7 12 01 PM '65

W. G. Smith, Jr. - #1 Atlantic State
1980' FNL & FEL
Sec. 32, T. 7 S., R. 35 E., N.M.P.M.
Roosevelt County, New Mexico

Date	Remarks
5/21	TD 4564'. Condition hole to run logs. Welex commence to run Acoustic Velocity, Forexo, Guard & MOP logs.
5/22	TD 4564'. Cont'd. to run above logs & reg down loggers. Condition hole for csg., laid down DP & DC. Ran 4559.20' of 4 $\frac{1}{2}$ " csg. consisting of one jt. new 11.6#, J-55 on bottom w/ welded-on float shoe (had weathered for 6 yrs. on rack), 5 jts. immediately above of used 11.6#, j-55, smls. LC&T & remaining new 11.6#, J-55 (same as btm. jt.) SC&T & landed 4558'. Used Weatherford centralizers & scratchers. HOWCO cmt'd. w/250 sx. Incor pozmix + 2% gel. + 6# salt/sx. Release rig @ 2:30 PM.
5/23	TD 4564'. Ran temp. survey & found TD @ 4524' w/top of cmt. outside of csg. @ 3625'.
5/24	TD 4564'. Monarch Drlg. ran 4522' 2" EUE tbg (used) & 4 - 6'2" subs & found plug @ 4549' KB, drilled out to 4555' KB, circ. hole clean. HOWCO operator when cmt. prod. csg. failed to trip release valve for initial wiper plug & injected same into csg. prior to final wiper plug following cmt. HOWCO maintained 3200# press. on hole for 14 hrs. after cmt. job.
5/28	Well shut-in. Chase Well Service RU gin-pole swb. unit.
5/29	Western displaced fresh wtr. w/lease oil (purchased). Welex ran PFC logs from 4551-4000'. Perf. 2 - 0.54" Hornet Jets per ft. @ following: 4491', 4500', 4508' & 4537'. Set HOWCO R-3 pkr. @ 4445' w/4.5' perf. nipple below. Western attempt to breakdown fmn. w/oil @ 5:48 PM w/2500#; cont'd. to try breakdown w/max. press. of 4500# & abandon efforts @ 8:45 PM.
5/30	Western re-commence breakdown operation @ 7:45 AM w/4500#; fm. broke & inj. 2000 gals. DS-30 15% @ 2800# @ 2 $\frac{1}{4}$ BPM & flushed w/ 18.6 BLO, ISDP 2500#, total of 113 BL to rec. Allowed fmn. to soak 45 min., op. to tanks & flow thru op. choke valve approx. 22 BLF. Cont'd. to swb. w/show of gas & rec. all except 25 BLF. Well shut-in.
5/31	Welex ran PFC & located above perfs. & re-perf. 2 - 0.54" Hornet Jets ea. @ 4491 $\frac{1}{2}$ ', 4500 $\frac{1}{2}$ ', 4508 $\frac{1}{2}$ ' & 4537 $\frac{1}{2}$ '. Prior to above oper. pulled R-3 pkr. & tbg.; pkr. had to be re-dressed. Ran tbg. w/perf. nipple & R-3 pkr. on bottom; couldn't lower pkr. below 4522'. Western spotted acid, DS-30 15% in hole & allowed to soad for 75 mins.; acidized w/2000 gals. + 18.6 BFW

Date	Remarks
	as flush. Max. press. 3000#, min. press. 2600#, ISDP 2350#. Western used ball sealers for selective acidizing in this and the previous acid job & we failed to notice any press. reaction. Well SI for 30 mins. & turn to tanks thru op. choke valve & then flowed 18 BF, cont'd. to swb. until fluid rate of entry decreased to 200' per run on swb.
6/ 1	Shut down Chase Well Service @ 2:00 AM. Well did not have show of gas after this treatment & it is est. we have 44 BLF or more to rec. Well shut-in to press. up & further orders.
6/ 2	Shut-in. No check on pressure.
6/ 3	SITP 300 psi. Bled-off to tanks with no flow. Turned to tanks on 1/2" choke.
6/ 4	Well cont'd. op. to tanks on 1/2" ch. till 7:00 AM on 6/8/65 with no flow. TP @ 50 psi.
6/ 8	Chase Well Service RU large unit. Western dpl. load oil w/ brine wtr. Ran MWL csg. scratcher w/3-7/8" bit & swedged out crimp in csg. @ 4522'. MWL instructed to return the Guiberson pkr. they had on loc. & replace w/A-5-S high press. tool. They did not have in Hobbs & had to send to Odessa for same. Operations shut-down @ 5:00 PM.
6/ 9	Ran MWL A-5-S pkr. & Western reloaded holw w/16 BXW lost overnight. Set pkr. @ 4539' & tested btm. of hole w/4200#; re-set pkr. @ 4533' & tested perf. @ 4537' w/2600#. Western acidized perf. @ 4537' w/1000 gals. DS-30 15%, max. press. 3200#, min. press. 1600#, ISDP 1800#, total load to rec. 46 BF. Well turned to pits & flwd. est. 15 BSW, ran swb. & 2 run kicked off & flwd. AW. After several runs of swb., noticed press. from fm. gas on annulus. Bled off press. & packed off head. Cont'd to swb. undisclosed amt. of XW (prob. load in annulus). Indications of communication around pkr., thru pers. down csg. or thru fmn. Shut-down operations @ 8:00 PM due to rain.
6/10	Commence swb. operations @ 9:30 AM & inserted standing valve in seating nipple @ 4503' after bleeding off SICP of 280#. Swb. est. 55 BF w/good SG & sli. SO. After CP dropped to 100#, well swb. down to rate of 100' of fluid entry per run. Shut down operations because light plant would not start & it rained cats and dogs.
6/14	Well SI from 6/10 to this date due to inclement weather. SICP @ 600#, bled off TP w/no flow. Swb. est. 48 BF w/GSG & SS0. When CP decreased to 180# or below, we did not get a fluid rate of 100' or more. Shut-down swb. operations @ 2:30 PM.

Date	Remarks
6/15	Shut-in.
6/16	SICP 600#. Bled-off tbg. press. w/no flow. Pulled tbg. & ran MWL plug & pkr. Set plug @ 4533' & pkr. @ 4520' & tested csg. collar @ 4522' @ 3200#; set pkr. @ 4505' & tested perfs. @ 4508' w/300# & found communication w/perfs. above. Attempt to pick-up MWL plug @ 4533' & unseated w/30,000# (tbg. weighed 12,000#), plug would not reseat to test perfs. @ 4500' & 4491', so came out of hole. MWL engineer thought plug was on string but when we reached the top the plug was missing.
6/17	Ran tbg. & located plug @ 2700' (top of fluid); attempt to reseat & failed; came out of hole & plug mandrel damaged (probably when unseating). Ran tbg. & set HOWCO pkr. @ 4458'. HOWCO squeeze w/175 sx. of Incore neat w/4 sx. walnut shells. Circ. press. @ 1000#, max. press. 5000#, flushed w/FW & pull tubing.
6/18	Ran 3-7/8" bit (HTB) w/Baasch-Ross subs & collar & loc. top of cmt. @ 4436' & drld. out w/Baasch-Ross swivel tool to 4520'. Baasch-Ross had to redress circ. pump on loc. & also the swivel control station had to be operated by short circuiting w/bailing wire. Pull tbg. & drlg. equip. Welex ran PFC log & re-perf. w/2 - 0.375" SPF @ 4491', 4497' & 4508'. Ran tbg. to 4509' w/seating nipple on btm. & HOWCO R-3 pkr. 1 jt. above. Western washed over perfs. & acidized w/500 gals. DS-30 15%, max. press. 3250#, min. press. 2800#, ISDP 2400#, avg. rate 1½ BPM, total load 31 BF, flush w/FW. Pull 1 jt. tbg. & set pkr. @ 4479' & turned well to tanks & swb. 38 BF w/sli. show of fm. gas & oil; turned well to pits & inserted standing valve.
6/19	Cont'd to swb. & rec. approx. 50 BF (total) after this treatment. Release Chase Well Service @ 12:00 AM. Well now turned to tanks on 1/2" choke & est. 2500' FIH.
6/23	Shut-down for orders. **Mr. B. I. (Bob) Miller of Fort Worth, Texas, conducted the operations on well when the MWL tools were utilized, recommending the squeeze operation and the last acid treatment.
6/24	Ernest A. Hanson assumed authority for further testing and completion attempts. Pulled HOWCO R-3 pkr. Ran HOWCO RTTS pkr. & cmt. tool to 4368' & sqz. w/100 sx. Incor + 2% CaCl @ 5100 psi. WOC.
7/ 1	Drld. out cmt. & prep. to sand drill & re-treat reservoir. Stage #1: Sand drld. 2-3/8" hole @ 4538' for 30 mins. Frac. w/1000 gals. Spearhead acid + 995 BXW + 15,000# 20-40 sand. Trtd. @ 22.5 BPM @ 3500#. When we started flowing back Stage #1, well

Date	Remarks
	flowed back small amt. of oil. Oil gradually inc. as press. depleted until steady stream of oil and well died.
	Stage #2: Sand drilled 2-3/8" hole @ 4491' for 30 mins. Frac w/500 gals. Spearhead acid + 660 BXW + 10,000# 20-40 sand. Avg. 24.2 BPM @ 3650#.

Daily pumping report as follows:

Date	Bbls. Wtr.	Bbls. Oil	Remarks
7/ 3	49.60	0	Pumping all zones together.
7/ 4	129.66	0	Rec. wtr. sli. more salty.
7/ 5	107.58	0	Rec. salt water.
7/ 6	90.95	0	
7/ 7	118.55	0	
7/ 8	88.28	0	
7/ 9	90.95	0	
7/10	99.30	0	
7/11	80.00	0	
7/12	99.30	0	
7/13	100.49	0	
7/14	90.95	0	
7/15	55.18	0	Pumped approx. 12 hrs.
7/16	77.24	0	
7/17	80.00	0	
7/18	46.90	0	P. 1405 BXW all zones. Pull tbg.
7/19	52.42	0	Reset pkr. to pump from 4538' only.
7/20	85.52	RBS0	Sli. tr. rainbow SO + small amt. gas.
7/21	77.24	0	
7/22	74.48	0	Sli. amt. of gas.
7/23	85.52	0	" " " "
7/24	77.24	SS0	Sli. trace of oil.
7/25	71.72	SS0	" " " "
7/26	73.09	SS0	" " " "
7/27	93.80	RBS0	Just trace rainbow oil show.
7/28	74.48	RBS0	
7/29	71.72	RBS0	
7/30	68.96	RBS0	
7/31	66.20	RBS0	
8/ 1	66.20	RBS0	
8/ 2	60.70	RBS0	
8/ 3	46.90	RBS0	
8/ 4	51.03	RBS0	
8/ 5	44.14	RBS0	
8/ 6	44.14	RBS0	
8/ 7	41.38	RBS0	
8/ 8	42.75	RBS0	
8/ 9	44.14	RBS0	
8/10	45.51	RBS0	
8/11	42.64	RBS0	Little gas - TSTM.

Date	Bbls. Wtr.	Bbls. Oil	Remarks
8/12	45.51	RBSO	
8/13	38.61	RBSO	Little gas.
8/14	38.61	RBSO	
8/15	27.60	RBSO	P. Approx. 18 hrs., down for rain.
8/16	44.14	RBSO	
8/17	33.10	RBSO	
8/18	46.90	RBSO	
8/19	44.14	RBSO	
8/20	16.56	RBSO	P. approx. 8 hrs., down for rain.
8/21	49.66	RBSO	
8/22	53.79	RBSO	
8/23	33.10	RBSO	Engine down; trouble w/carburator.
8/24	5.52	RBSO	Engine trouble & rain. SDR.
9/ 2	44.14	RBSO	
9/ 3	60.70	RBSO	
9/ 4	66.20	RBSO	
9/ 5	55.18	RBSO	
9/ 6	55.18	RBSO	
9/ 7	44.14	RBSO	
9/ 8	49.66	RBSO	
9/ 9	27.60	RBSO	P. approx. 12 hrs., engine down.
9/10	55.18	RBSO	P. 2437 BXW @ 4538'. Pull pkr.
9/11	32.77	0	Reset pkr. to pump from 4491' only.
9/12	60.70	0	Sli. show of gas.
9/13	49.66	0	
9/14	57.56	0	
9/15	46.90	0	
9/16	45.51	0	
9/17	46.51	0	
9/18	13.80	0	Engine down.
9/19	33.10	0	Small show of gas.
9/20	19.32	0	Engine down.
9/21	27.60	0	SI 24 hrs. P. w/350# csg. press.
9/22	35.86	0	
9/23	33.10	0	
9/24	27.60	0	Closed csg.; 300 psi CP.
9/25	24.83	0	
9/26	22.07	0	
9/27	24.83	0	
9/28	19.32	0	
9/29	16.55	0	Gas didn't seem as strong today.
9/30	13.80	0	
10/1	15.17	0	
10/2	16.56	0	
10/3	16.56	0	
10/4	19.32	0	SICP 300# in 24 hrs.
10/5	11.04	0	Engine down 14 hrs. for rain.
10/6	8.28	0	Engine down 16 hrs. for rain.
10/7	19.32	0	Install HP valve. 300 psi SICP.
10/8	17.83	0	SICP 585 psi.

Date	Bbls. Wtr.	Bbls. Oil	Remarks
10/ 9	19.32	0	SICP 775 psi.
10/10	11.04	0	SICP 950 psi.
10/11	13.80	0	CP 600 psi. Bled off gas.
10/12	16.56	0	
10/13	15.17	0	Small amt. gas thru tbg., good blow thru casing. Gas may be increasing.
10/14	11.04	0	Gas may be further increasing.
10/15	0	0	SI well. Pump needs to be pulled.
10/21	0	0	Pulled pump; well producing.
10/22	16.55	0	Pump stuck in top of barrel. No gas as yet. Will repair.
10/23	0	0	Will plug back & try additional pay. P. 879 BXW from 4491'.

Date	Remarks
10/25	Moved pulling unit to location & rigged-up.
10/26	Pulled tubing & rods. Wellex perf. 1 - 0.50" jet per ft. @ 4380', 4388', 4399', 4418', 4428', 4435' and 4466'. Ran 2-3/8" tbg. w/HOWCO RTTS pkr. & RBP to individually breakdown ea. perf. w/total of 1250 gals. of 15% reg. acid. Broke down perf. @ 4466', 4435', 4428' & 4418'.
10/27	Continued acidizing & brokedown perfs @ 4399', 4388' & 4380'. Set RBP @ 4471' & RTTS pkr. @ 4354' & swb. 120 BLW + AW w/ sli. show of gas.
10/28	Cont'd. swb. for 10 hrs. & rec. 66 BLW + fair show of gas.
10/29	Cont'd. swb. for 2 hrs. & rec. 24 BLW + good SG. Pulled RBP & RTTS pkr. Reset RTTS pkr. w/bull plug below & perf. nipple above pkr. @ 4449' & swb. additional 45 BLW + GSG. Csg. press. built-up to 100 psi. Swb. well & run rods.
10/30	Well back on pump. Testing.

Date	Bbls. Wtr.	Remarks
10/31	99.00	SICP 700 psi.
11/ 1	78.71	SICP 800 psi.
11/ 2	75.20	SICP 900 psi.
11/ 3	57.93	Bleeding off casing pressure. Testing gas.
11/ 4	80.00	SICP 900 psi. Rec. 12,000 CFGPD on 1/4" orifice.
11/ 5	88.27	Tested 17.3 MCFGPD w/1/8" orifice @ 26 psi.
11/ 6	91.03	Tested 19.4 MCFGPD.
11/ 7	91.03	Tested 20.3 MCFGPD.
11/ 8	102.05	SI csg. to build up gas press.
11/ 9	82.75	
11/10	82.75	Very little gas.
11/11	62.20	Gas press. TSTM.
11/12	71.71	" " "
11/13	89.62	" " "

Date	Bbls. Wtr.	Remarks
11/14	82.76	Gas press. TSTM.
11/15	77.23	
11/16	77.23	
11/17	71.72	
11/18	79.99	
11/19	85.51	Gas TSTM
11/20	88.27	
11/21	77.23	
11/22	82.76	Very little gas blowing. No show of oil.
11/23	77.23	
11/24	88.27	
11/25	93.79	
11/26	85.51	
11/27	90.02	
11/28	96.54	
11/29	93.79	
11/30	0	Moving in pulling unit. Prep. to P&A.
12/ 1		Plugged & abandoned.