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Form C-125
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	
State ☐	Fee ☒
5. State Oil & Gas Lease No.	

1a. TYPE OF WELL		7. Unit Agreement Name	
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐			
b. TYPE OF COMPLETION		8. Farm or Lease Name	
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐		W. L. Perkins	
2. Name of Operator		9. Well No.	
H. L. Brown, Jr.		1 ^{2-4 969}	
3. Address of Operator		10. Field and Pool	
P. O. Box 2237 Midland, Texas 79701		Bluitt (Wolfcamp) Gas	
4. Location of Well			
UNIT LETTER <u>D</u> LOCATED <u>990</u> FEET FROM THE <u>North</u> LINE AND <u>990</u> FEET FROM		12. County	
THE <u>West</u> LINE OF SEC. <u>10</u> TWP. <u>8S</u> RGE. <u>37E</u> NMPM		Roosevelt	

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
10-21-74	11-22-74	12-6-74	4055' GL	4055'
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools
8810'	8770'		→	0 - TD
24. Producing Interval(s), of this completion - Top, Bottom, Name				25. Was Directional Survey Made
8008-8049' Wolfcamp				No
26. Type Electric and Other Logs Run				27. Was Well Cored
Compensated Neutron Formation Density				No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	348'	17"	350 sxs Class "C"	None
8-5/8"	24 & 32#	3,750'	11"	400 sxs Class "C"	None
4-1/2"	13.5, 10.6, 11.6#	8,810'	7-7/8"	400 sxs 50-50 Poz-Mix	None

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	7850'	7850'

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	8008' - 8011', 8014' - 8018', 8028' - 8032', 8035' - 8039', 8045' - 8049'	1500 gals gas well acid & 10 ball sealers. Used nitrogen throughout treatment
	19, 0.41" holes	

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
12-6-74		Flowing				Shut in.	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
12-6-74	5-1/2	8/64"	→	5.5	166	0	30,182 - 1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
1230	Packer	→	24	724	----	67 deg.	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
Shut in.	C. Allen Dorsey

35. List of Attachments
C-122, C-103, Inclination Report, Log

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 Jack R. McGraw	Drilling & Production Mngr. DATE 12-20-74

LTR

INSTRUCTIONS

This form is to be filed 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 filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anh /	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	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 3708 (+358)	T. Simpson	T. Gallup	T. Ignacio Qtzte
T. Gloreeta 5027 (-961)	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinbry	T. Gr. Wash	T. Morrison	T.
T. Tubb 6217 (-2151)	T. Granite 8750 (-4684)	T. Todilto	T.
T. Drincard	T. Delaware Sand	T. Entrada	T.
T. Abo 7011 (-2945)	T. Bone Springs	T. Wingate	T.
T. Wolfcamp 8002 (-3936)	T. Lwr Clfrk 6390 (-2324)	T. Chinle	T.
T. Penn.	T. Clearfork 5100 (-1034)	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1890	1890	Redbeds				
1890	2280	390	Redbeds & anhydrite				
2280	3241	961	Salt & Anhydrite				
3241	3689	448	Anhydrite				
3689	3850	161	Anhydrite & dolomite				
3850	6868	3018	Lime				
6868	7069	201	Lime, shale & chert				
7069	7108	39	Lime, & Abo shale				
7108	7133	25	Lime, shale & chert				
7133	7579	446	Abo shale				
7579	7728	149	Abo shale & lime				
7728	7920	192	Lime & shale				
7920	7975	55	Lime				
7975	7995	20	Lime, shale & abo				
7995	8181	186	Lime				
8181	8215	34	Shale & lime				

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12-6-74	
Company H. L. Brown, Jr.		Connection None	
Pool Bluitt, Wolfcamp Gas		Formation Wolfcamp	
Completion Date 12-6-74		Total Depth 8810	Plug Back TD 8770
		Elevation 4055.1 GL	Farm or Lease Name Perkins
Csg. Size 4 1/2	Wt. 10-11-13	d 3.99	Set A 8810
Perforations: From 8008 To 8048		Well No. 1	
Tbg. Size 2 3/8	Wt. 4.7	d 1.99	Set A 7914
Perforations: From Open To End		Unit Sec. Twp. Age NW 10 8 37	
Type Well - Single - Brazenhead - G.G. or G.O. Multiple Single			Packer Set At 7914
Producing Thru Tubing			County Roosevelt
Reservoir Temp. °F 144 @ 8028		Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State N.M.			
L 8028	H	Gg .715	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps 3 Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							2170			
1.	3		1.250	500	6	80	2035	48	Pkr.	
2.	3		1.250	540	8	90	1915	52		2.5 hrs.
3.	"		"	550	17	80	1670	60		1.0 hrs.
4.	"		"	550	40	80	1230	64		1.0 hrs.
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	7.577	55.4905	513.2	.9813	1.183	1.062	438
2	"	88.0045	513.2	.9723	"	1.060	572
3	"	97.8489	563.2	.9813	"	1.066	917
4	"	150.0933	563.2	.9813	"	1.066	1407
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
					29,312	
					A.P.I. Gravity of Liquid Hydrocarbons	68
1					Specific Gravity Separator Gas	XXXXXX
2					Specific Gravity Flowing Fluid	XXXXX
3					Critical Pressure	P.S.I.A.
4					Critical Temperature	R
5						

P _c	2183.2	P _c ²	4766
NO.	P _i ²	P _w	P _w ²
1	2043.2	4195	571
2	1898.2	3604	1132
3	1683.2	2833	933
4	1243.2	1546	3220
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4801$

ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2074$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4744$

Absolute Open Flow	2074	Mcf/d @ 15.025	Angle of Slope °	49.1	Slope, n	.866
Remarks:						

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	C. Allen Dorsey	C. Allen Dorsey	