

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBBS OFFICE O.C.C.
Feb 23 12 45 PM '65
Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalmat Formation Yates County Lea
Initial Annual Special X Date of Test 2-16-65
Company Sinclair Oil & Gas Company Lease Fredrick H. Curry WN Well No. 1
Unit P Sec. 1 Twp. 24S Rge. 36E Purchaser El Paso Natural Gas Co.
Casing 5 1/2" Wt. 17# I.D. 4.892 Set at 3310 Perf. 2868 To 3192
Tubing 2 1/2" Wt. 6.5# I.D. 2.441 Set at 3256 Perf. Sleeve @ 3064 To
Gas Pay: From 2868 To 3192 L 3064 xG 0.68 -GL 2084 Bar.Press. 13.2
Producing Thru: Casing Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: WD 2-5-65 Packer 3250 Reservoir Temp.

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						628		628		
1.	4026	1.250"	203	5.2	44	618		619		1 hr.
2.	4026	1.250	203	30.3	38	605		606		1 hr.
3.	4026	1.250	260	41.8	38	593		595		1 hr.
4.	4026	1.250	268	63.9	42	581		584		1 hr.
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.	9.643	36.60	216.2	1.0157	0.9293	1.000	36.60
2.	9.643	50.73	216.2	1.0219	0.9293	1.000	45.0
3.	9.643	106.76	273.2	1.0219	0.9293	1.000	107.5
4.	9.643	138.18	291.2	1.0178	0.9293	1.000	137.5
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas 0.6
Specific Gravity Flowing Fluid 0.6
P_c 641.3 P_e 411.1

No.	P _w P _t (psia)	$\frac{P_e}{P_c}$	F _{g2}	(F _{g2}) ²	(F _{cQ}) ² (1-e ^{-s})	P _{e2}	$\frac{P_e^2}{P_c^2}$	Cal. P _w	F _g F _c
1.	632.2					399.7	0.61		0.936
2.	619.2					383.4	0.59		0.965
3.	608.2					369.9	0.57		0.949
4.	597.2					356.6	0.55		0.931
5.									

Absolute Potential: 7,200 MCFPD; n 0.80626COMPANY Sinclair Oil & Gas CompanyADDRESS Box 1920, Hobbs, New MexicoAGENT and TITLE Fred Burns, SuperintendentWITNESSED D. PayneCOMPANY Sinclair Oil & Gas Company

REMARKS

Did not file w/ N.M. Oil Commission

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Q. 10/10

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State ☐ Fee ☒
5. State Oil & Gas Lease No.
7. Unit Agreement Name
8. Farm or Lease Name Frederick H. Curry W
9. Well No. 1
10. Field and Pool, or Wildcat Jalnat Gas Field
12. County Lea

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	Sinclair Oil Corporation Merged into Atlantic Richfield Company effective March 4, 1969
2. Name of Operator Sinclair Oil & Gas Company	
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico	
4. Location of Well UNIT LETTER P 660 FEET FROM THE South LINE AND 660 FEET FROM THE East LINE, SECTION 1 TOWNSHIP 24S RANGE 36E N.M.P.M.	
15. Elevation (Show whether DF, RT, GR, etc.) 3344' GR	

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐
☐

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☐
OTHER **Squeeze, perf., SOF & recomple** ☒

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 1-25-65 Ran Gamma Neutron Log 3379-2450'. Set Baker Model D Prod. packer & exp. plug @ 3250' w/20' frac sand to 3230'. Jet perf. 5 1/2" CD csg for protective squeeze 3220-22' w/4-3/8" holes. Set CI retainer @ 3180'.
- 1-27-65 Squeezed perfs. 3220-22' w/100 sks. Inscr and salt Max. Press. 4000#, completed 10:00 AM 1-26-65. Jet perf. 5 1/2" csg for protective squeeze 3026-27' w/4-3/8" holes. Set CI ret. @ 2986' ran 2-7/8" tbg to 2986' pressured 5 1/2" csg to 1500# OK. Squeezed perfs. 3026-27' w/100 sks. Inscr cement Max. Press. 2500# completed 5:30PM 1-26-65. WOC 24 hrs.
- 1-28-65 Jet perf. 5 1/2" csg 2811-12' w/4-3/8" holes. Set C.I. ret. @ 2770' squeezed perfs. 2811-12 w/100 sks. Inscr neat cement wt. 14.8# preceded by 250 gal. M.A. Max. Press 500#. Resqueezed perfs. 2811-12' w/100 sks. Inscr neat. wt. 14.8# Max. Press 3200#. WOC 24 hrs.
- 1-30-65 Tested csg and squeezed perfs. 2811-12' w/1500# for 30 mins. Tested OK.
- 1-31-65 Tested csg and squeezed perfs. 3026-27' and 2811-12' w/1500# for 30 min. Tested OK. Tested perfs 3220-22' and csg to 1500# for 30 mins. Tested OK.
- 2-1-65 Jet perf. Jalnat (Yates) 2913-16', 2942-45', 3034-36', 3073-76', 31'2-34', 3191-92' w/38 3/8" holes.
- 2-2-65 Acidized Jalnat perfs. 3034-3192' w/1500 gal. HDA using 20 ball sealers Max. Press 4000#, Min. 2200# @ 5 BPM. Inst. SIP 300# 1 min. SIP 0. (Continued on back of Page)

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE **Superintendent** DATE **2-12-65**

APPROVED BY [Signature] TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Orig 3cc: OCC, Hobbs, cc: Mr. R.F. Sawyer, cc: file

- 2-3-65 Acidize Jalmat perfs. 2866-2945' w/1500 gal. H.O.A. and 26 ball sealers Max. Press. 2200#, Min. 1000# @ 5 BPM. Inst. SIP 1000#, 5 min. SIP 300#.
- 2-5-65 Sand Oil Frac Jalmat perfs. 2866-2945' w/10,000 gal. refined oil and 10,000# sand thru 2-7/8" tubing Max. Press. 4800#, Min. 3700# @ 11.9 BPM using 18 ball sealers and 16 gal. HIA Inst. SIP 700# 5 min. SIP 600#.
- 2-7-65 Run 2-7/8" tubing and land in Model "D" @ 3250' w/PSI sleeve @ 3064' type "F" nipple @ 3095'.
- 2-10-65 On 8 hour completion test of Jalmat perfs. 2866-3192' flowed @ rate of 2,334 MCF/D on 1/2" choke, flowing tubing pressure 250# P.S.I. Recompleted as dry gas well after plug back from 3538'.