

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Blanco & Aztec P. C.		County San Juan	Date April 26, 1959
Operator El Paso Natural Gas Company		Lease San Juan 29-9	Well No. 1 (FM)
Location of Well K	Unit 35	Township 29N	Range 4N

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐
2. If answer is yes, identify one such instance: Order No. **DC-496**; Operator, Lease, and Well No.:

Warren No. 2 (FM)

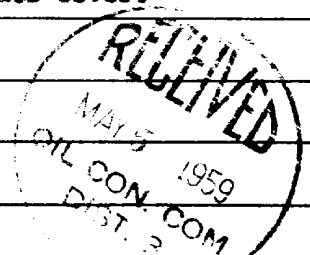
3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Pictured Cliffs	Mesa Verde
b. Top and Bottom of Pay Section (Perforations)	2150-2190	3800-4546
c. Type of production (Oil or Gas)	Gas	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing

4. The following are attached. (Please mark YES or NO)

- Yes** a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes** b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- No** c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- No** d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Delhi-Taylor - Waiver requested. To be sent to Santa Fe under separate cover.



6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐ . If answer is yes, give date of such notification _____.

CERTIFICATE: I, the undersigned, state that I am the **Division Petroleum Engr.** of the **El Paso Natural Gas Co.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

ORIGINAL SIGNED E. S. OBERLY

Signature

- * Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

STATE OF NEW MEXICO)
)
COUNTY OF SAN JUAN)

I, A. T. Fry, being first duly sworn upon my oath depose
and say as follows: .

I am an employee of Guiberson Corporation, and that on
July 2, 1958, I was called to the location of the El Paso Natural
Gas Company San Juan 29-9 No. 1 (FM) Well located in the NESW/4
of Section 35, Township 29 North, Range 9 West, N.M.P.M., for advisory
service in connection with installation of a production packer. In my
presence, a Guiberson "Shorty" Production Packer was set in this well
at 2306 feet in accordance with the usual practices and customs of
the industry.

A. T. Fry

Subscribed and sworn to before me this 24th day of April,
1959.

Donald MacIsaac
Notary Public in and for San Juan County,
New Mexico

My commission expires February 24, 1960.



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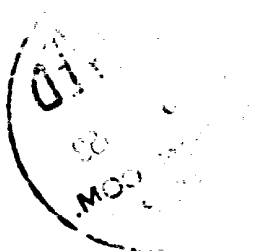
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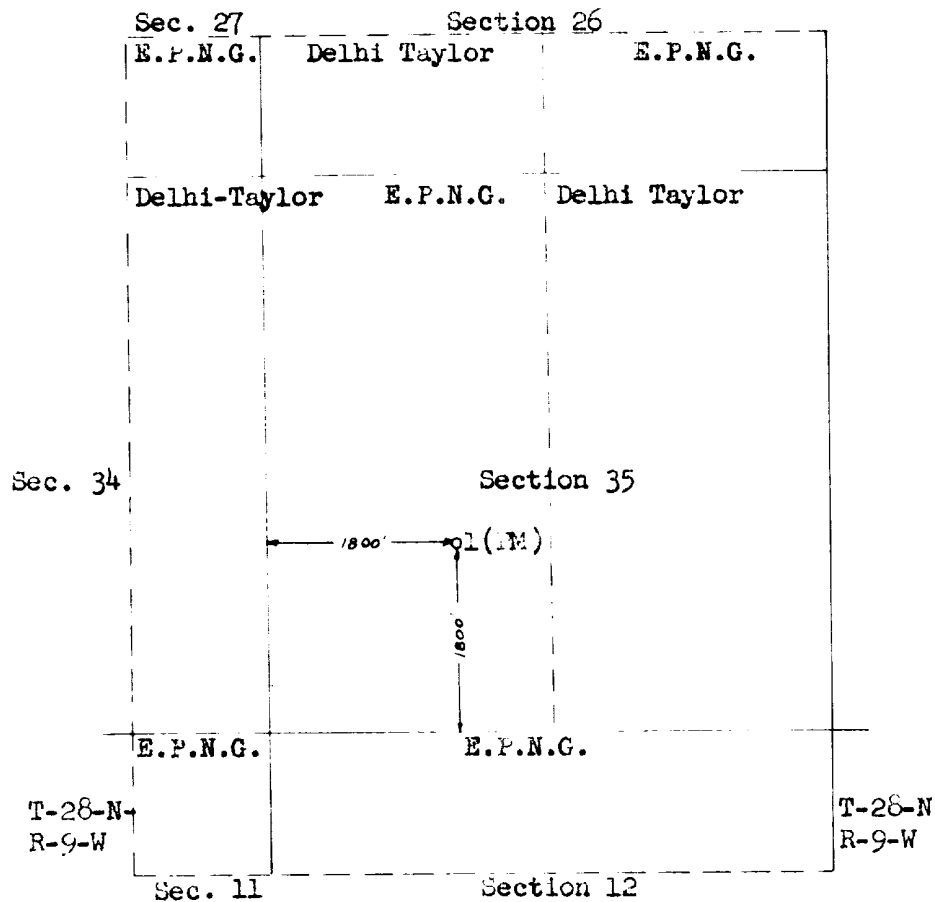
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Plat Showing Location of Dually Completed
 El Paso Natural Gas Co. San Juan 29-9 No. 1 (PM)
 SW/4 Section 35-29-5

T-29-N
 R-9-W



EL PASO NATURAL GAS COMPANY
 EL PASO, TEXAS

SCALE

DATE

No.

DRAWN BY

CHECKED BY

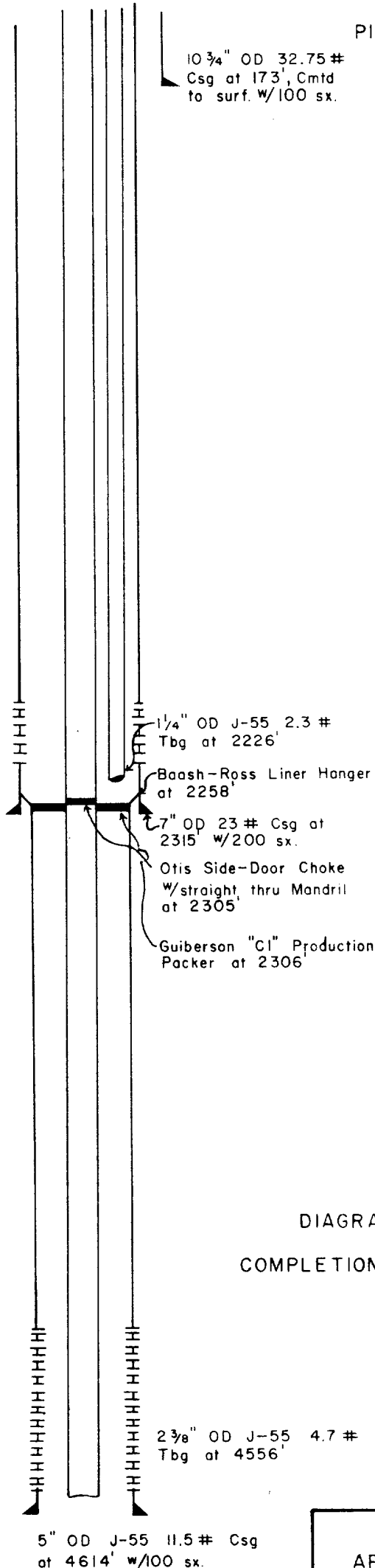
PICTURED CLIFFS PERFORATIONS

10 3/4" OD 32.75 #
Csg at 173', Cmtd
to surf. w/100 sx.

2150'-2175', 2183'-2190'

MESAVERDE PERFORATIONS

3800'-3807', 3846'-3882'
3908'-3914', 4022'-4029'
4130'-4147', 4200'-4206'
4211'-4213', 4218'-4221'
4236'-4248', 4320'-4326'
4330'-4340', 4411'-4415'
4419'-4427', 4432'-4441'
4444'-4449', 4452'-4460'
4462'-4464', 4466'-4475'
4479'-4483', 4497'-4499'
4501'-4503', 4539'-4541'
4544'-4546'



DIAGRAMATIC SKETCH OF DUAL GAS COMPLETION FOR SAN JUAN 29-9, WELL # 1

APPLICATION FOR DUAL GAS COMPLETION
OF SAN JUAN 29-9, WELL #1 IN
PICTURED CLIFFS AND MESAVERDE
FORMATION

SAN JUAN COUNTY
NEW MEXICO

LEASE N.M. 029146

Drawn: W.H. McGahey

Scale: 1" = 3000'

Approved: Ray Phillips

Date: 10-14-58

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Alamosa Formation Alamosa County San Juan
 Initial 5 Annual Special Date of Test 1-24-58
 Company Val N. Chiles Lease San Juan 20-9 Well No. 1
 Unit 1 Sec. 35 Twp. 23N Rge. 9W Purchaser Val N. Chiles
 Casing 9" Wt. 11.3 I.D. Set at 1014 Perf. 3800 To 4300
 Tubing 1 1/2" Wt. 3.7 I.D. Set at 414 Perf. 4300 To
 Gas Pay: From 1873 To 4300 L 428 OG 1.25 GL 1.25 Bar. Press.
 Producing Thru: Casing Tubing 1 Type Well Pool 1-2-4
 Date of Completion: 1-21-58 Packer Yes 2300' Reservoir Temp.
 Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Seated Through (Prover) (Choke) (Meter) Type Taps

	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.	
1.						1034		830		1.1
2.										
3.		1/4				134	67	837		1.1
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.	12.000		336	.9713	.9100	1.030	4.000
4.							
5.							

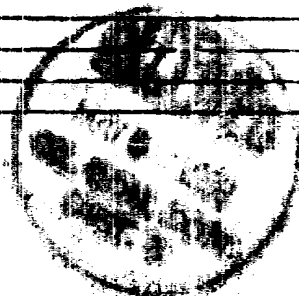
PRESSURE CALCULATIONS

Liquid Hydrocarbon Ratio cf/bbl.
 Gravity of Liquid Hydrocarbons deg.
0.800 (1-e^{-s}) 0.800
 Specific Gravity Separator Gas
 Specific Gravity Flowing Fluid
 P_c 1800 P_c 2000.0

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.									
2.									
3.	115	132.25	10.473	109.672	107.130	415.440	684.560		1.207
4.									
5.									

Absolute Potential: 1.700 MCFPD; n .75/1.400
 COMPANY Val N. Chiles
 ADDRESS 115 South St. N. Albuquerque, N. M.
 AGENT and TITLE G. E. Turner, Well Tester, Northwest Production Corp.
 DRESSED
 COMPANY

REMARKS



NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Antoni Formation Platform 611 ft County San Juan
Initial X Annul Special Date of Test 7-21-56
Company Ted E. White Lease San Juan 20-0 Well No. 1
Unit 11 Sec. 33 Twp. 39N Rge. 2W Purchaser Not connected
Casing 7" Wt. 11.9 I.D. Set at 2110 Perf. 2130 To 2190
Tubing 1-1/8" Wt. 4.3 I.D. Set at 2130 Perf. 2190 To
Gas Pay: From 2130 To 2190 L 2150 x 1.00 GL 1397 Bar. Press.
Producing Thru: Casing 1 Tubing Type Well Dual - G-G
Date of Completion: 7-20-56 Packer See = 2130' Reservoir Temp.
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through 111000 (Choke) 111000 Type Taps

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
(Prover) (Line) Size	(Choke) (Choke) Size	Press. 14 PC psig	Diff. h _w	Temp. °F.	Temp. °F.	Press. 14 PC psig	Temp. °F.	Press. psig	Temp. °F.	
		790				1020		691		62
	1/4	109				1020		177	66	3 hrs

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia.	Flow Temp. Factor F _g	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
	11.2522		109	.994	.995	1.00	1.371

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
(1-e⁻⁸)
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 663 P_c 706.0

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
	109					76.5	706		1.035

Absolute Potential: 1.377 MCFPD; n .00110463
COMPANY Ted E. White
ADDRESS 113 S. 1st St. N. Albuquerque, N.M.
AGENT and TITLE G. L. Warner, Well Factor, Northwest Production Corp.
WITNESSED Fred Cook, M. G. G. Mr. G. G. G. M. G. G.
BY H. L. Kendrick and L. D. Callahan, EPNC
REMARKS