

30-005-60557

Form O-1
Revised 11-68

NO. OF COPIES RETURNED	6
DISTRIBUTION	
SANTA FE	1
FILE	1 ✓
U.S.G.S.	2
LAND OFFICE	1
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT LOG

JUL 2 1979

O.C.C.
ARTERIA, OFFICE

1. TYPE OF WELL

2. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐

3. NAME OF OPERATOR

Phoenix Resources Company ✓

4. ADDRESS OF OPERATOR

3555 NW 58th Street, Suite 300; Oklahoma City, Oklahoma 73112

5. LOCATION OF WELL

UNIT LETTER 11C1 LOCATED 660 FEET FROM THE North LINE AND 1980 FEET FROMTHE West LINE OF SEC. 20 TWP. 19S RGE. 20ECOUNTY
Chaves15. Date Spudded 4/15/79 16. Date T.D. Reached 5/13/79 17. Date Compl. (Ready to Prod.) 5/19/79 18. Elevations (DF, R&B, RT, GR, etc.) 4849.9 GR 19. Elev. Casinghead 4849.920. Total Depth 6909' 21. Plug back T.D. 6502' 22. If Multiple Compl., How Many 23. Intervals Cased By Rotary Tools 6950' Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

Top 6480' Bottom 6496' Atoka (Upper)

25. Was Directional Survey Made

Yes

26. Type Electric and Other Logs Run

Continuous Dipmeter, Gamma Ray Collar, CNL-FDC DILL with micro SFL

27. Was Well Cored

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#	153'	17-1/2"	150 sxs Class C 2% CaCl	
8-5/8"	24#	1773'	8-5/8"	200 sxs Class C 2% CaCl	
4-1/2"	11.6 & 10.5#	6751.11'	4-1/2"	600 sxs Class C 50-50 poz	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	6438'	6438'

31. Perforation Record (Interval, size and number)

6484-94', .5", 20 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production <u>5/19/79</u>	Production Method (Flowing, gas lift, pumping - Size and type pump) <u>Flowing</u>	Well Status (Prod. or Shut-in) <u>Shut-in</u>
Date of Test <u>5/21/79</u>	Hours Tested <u>7</u>	Choke Size <u>12/64"</u>
Flow Tubing Pressure <u>1240 psi</u>	Casing Pressure <u>0</u>	Calculated 24-Hour Rate <u>0</u>
	Oil - Bbl. <u>0</u>	Gas - MCF <u>290</u>
	Water - Bbl. <u>0</u>	Oil Gravity - API (Corr.) <u>N/A</u>

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented, waiting on pipeline

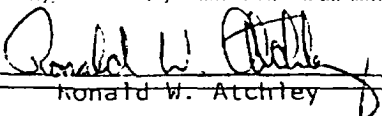
Test Witnessed By

J. B. Mann

35. List of Attachments

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


 Ronald W. Atchley

TITLE

Operations Coordinator

DATE

June 29, 1979

INSTRUCTIONS

This form is to be filed with the appropriate district office of the Department of Mineral Resources after the completion of any newly drilled or deepened well. It must be accompanied by one copy of all geological and geophysical logs run in the well and a summary of all special tests conducted, including well logs. All data recorded shall be measured depths. In the case of fire-dynamically drilled wells, true vertical depths shall also be reported. For multiple completions, items 11 through 14 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 11.5.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy.	T. Canyon	5743'	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	6148'	T. Kirtland-Fruitland	T. Penn. "C"
H. Salt	T. Atoka	6455'	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	6670'	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	T. Simpson		T. Gallup	T. Ignacio Qtzite
T. Glorieta	T. McKee		Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger		T. Dakota	
T. Blinberry	T. Gr. Wash		T. Morrison	
T. Tubb	T. Granite		T. Todilto	
T. Drinkard	T. Delaware Sand		T. Entrada	
T. Abo	T. Bone Springs		T. Wingate	
T. Wolfcamp	T. Morrow	6624'	T. Chinle	
T. Penn.			T. Permian	
T. Cisco (Bough C)			T. Penn. "A"	

No. 1, from 6480' to 6496'	No. 4, from	No. 5, from	No. 6, from
No. 2, from			
No. 3, from			

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from	to	feet
No. 2, from	to	feet
No. 3, from	to	feet
No. 4, from	to	feet

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surface	3141'	3141'	Limestone, shale				
	3141'	753'	Dolomite, and red shale				
	3894'	1362'	Red shale, dolomite, and some sand.				
	5256'	1199'	Limestone gray and red shales, trace of sand				
	6455'	215'	Sand, limestone, and gray to black shales.				
	6670'	239'	Limestone cherty and dark gray shale				
	6909'						

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

File # 22
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-6-79		18 1979	
Company Phoenix Resources Co.			Connection		O. C. C. ARTESIA, OFFICE
Pool Wildcat etoka			Formation S. etoka		Unit
Completion Date 17		Total Depth 4000		Plug Back TD 1520	Elevation 4350 ft.
Farm or Lease Name Ranch Road			Well No. 1		
Csg. Size 4 1/2	Wt. 11.60	d 4.000	Set At 6761	Perforations: From 6484 To 6494	
Tbg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 6438	Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single			Packer Set At 6438		County Chaves
Producing Thru Tubing		Reservoir Temp. °F 99 @ 6489		Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State New Mexico					
L 6489	H 6489	G _g 0.692	% CO ₂	% N ₂	% H ₂ S
Prover 2"			Meter Run Taps		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							1540			
1.	2" x 1 1/16"			1485		70	1485	73		
2.	2" x 3/32"			1410		81	1410	74		
3.	2" x 1/8"			1319		80	1319	76		
4.	2" x 3/16"			1052		74	1052	77		
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	0.06405		1498.2	0.9905	1.202	1.176	134
2.	0.1410		1423.2	0.9804	1.202	1.156	273
3.	0.2648		1332.2	0.9813	1.202	1.146	477
4.	0.6032		1065.2	0.9868	1.202	1.121	861
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	2.24	530	1.37	0.722	0	
2.	2.13	541	1.39	0.748		
3.	1.99	540	1.39	0.761		
4.	1.59	534	1.38	0.796		
5.						

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1.	2244.6	1498.3	2244.9	162.5	
2.	2025.5	1423.7	2026.9	385.5	
3.	1774.8	1333.8	1779.1	633.3	
4.	1124.7	1072.1	1149.5	1262.9	
5.					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.9102$

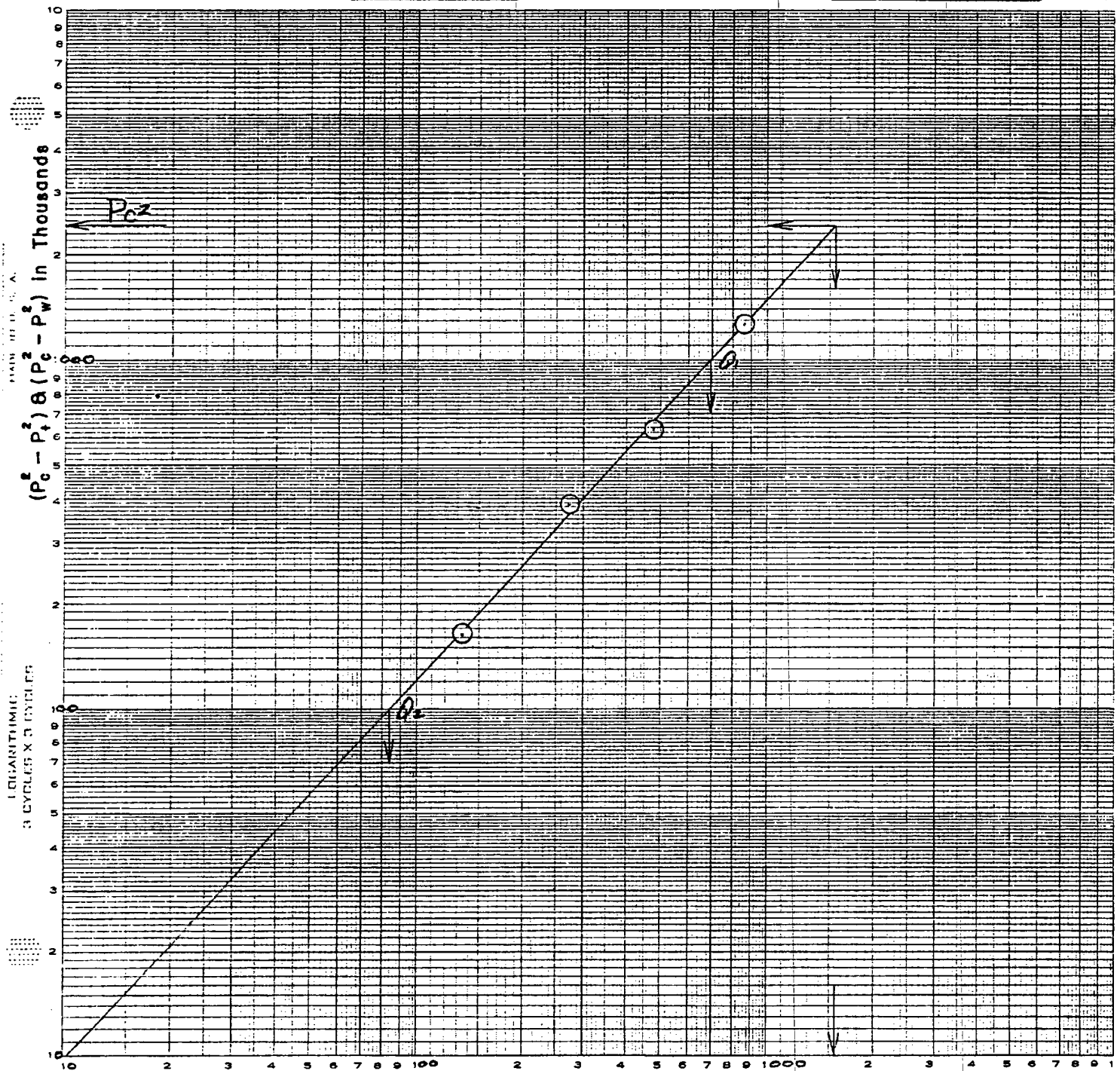
AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1558$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 18091$

Absolute Open Flow	1558	Mcf @ 15.025	Angle of Slope °	47.5	Slope, n	0.916
Remarks:						
Approved By Commission:		Conducted By: Rodney Pearce		Calculated By: Carson Watt		Checked By:

BACK PRESSURE CURVE

Operator Phoenix Resources Lease Ranch Road Well No. 1
 County Chaves Field _____ Location 20-19-20
 Date of Test 6-6-79 Slope "n" _____ W.H. 0.916 Abs.
 Calc. W.H. Potential _____ MCF/D Calc. Abs. Potential 1558 MCF/D



Q in MCF/Day $Q_1 = 693$ $\log Q_1 = 2.840733$
 $Q_2 = 84$ $\log Q_2 = 1.924279$
.916454

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (P_w)

Form C-122D
Adopted 9-1-65

COMPANY Phoenix Resources LEASE Ranch Road WELL NO. 1 DATE 6-6-79

LOCATION: Unit 6489 Section 20 Township 19 Range 20

L 6489 H 6489 L/H 1 G 0.692 % CO₂ 1 % N₂ 1 % H₂S 1

d 1.995 F_r 0.018231 GH 4490 P_{cr} 669 T_{cr} 388
1st Rate 2nd Rate 3rd Rate 4th Rate

LINE	1st Trial	2nd Trial	1st Trial	2nd Trial	1st Trial	2nd Trial	1st Trial	2nd Trial	1st Trial	2nd Trial	1st Trial	2nd Trial	3rd Trial
1 Q _m	0.134	0.134	0.213	0.213	0.213	0.213	0.477	0.477	0.477	0.477	0.861	0.861	0.861
2 T _w (W.H. °R)	533	533	534	534	534	534	536	536	536	536	537	537	537
3 T _s (B.H. °R)	559	559	559	559	559	559	559	559	559	559	559	559	559
4 T = ($\frac{T_w + T_s}{2}$)	546	546	546.5	546.5	546.5	546.5	547.5	547.5	547.5	547.5	548	548	548
5 Z (Est.)	0.728	0.735	0.738	0.738	0.743	0.750	0.754	0.754	0.767	0.792	0.794	0.794	0.794
6 TZ	397	401	403	406	411	413	413	420	434	435	435	435	435
7 GH/TZ	11.31	11.20	11.14	11.06	10.92	10.87	10.69	10.69	10.69	10.32	10.32	10.32	10.32
8 e ^s (Table XIV)	1.528	1.522	1.519	1.514	1.506	1.503	1.493	1.493	1.474	1.473	1.473	1.473	1.473
9 1-e ^s (Table XIV)	0.346	0.343	0.342	0.340	0.336	0.335	0.330	0.330	0.322	0.321	0.321	0.321	0.321
10 P _t	1498.2	1498.2	1423.2	1423.2	1332.2	1332.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2
11 P _t ² /1000	2244.6	2244.6	2025.5	2025.5	1774.8	1774.8	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7
12 F _r (Table XV)	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231
13 F _c = F _r TZ	7.24	7.31	7.35	7.4	7.49	7.53	7.66	7.66	7.91	7.93	7.93	7.93	7.93
14 F _c Q _m	0.97	0.98	2.0	2.02	3.57	3.59	6.6	6.6	6.8	6.8	6.8	6.8	6.8
15 L/H (F _c Q _m) ²	0.94	0.96	4	4.1	12.7	12.9	43.6	43.6	46.2	46.2	46.2	46.2	46.2
16 F _w =L/H(F _c Q _m) ² (1-e ^{-s})	0.325	0.329	1.4	1.4	4.3	4.3	14.4	14.4	14.9	14.8	14.8	14.8	14.8
17 P _w ² = P _t ² + F _w	2244.9	2244.9	2026.9	2026.9	1779.1	1779.1	1149.1	1149.1	1149.6	1149.5	1149.5	1149.5	1149.5
18 P _s ² = e ^s P _w ²	3430.2	3430.2	3078.9	3068.7	2679.3	2674	1715.6	1715.6	1694.5	1693.2	1693.2	1693.2	1693.2
19 P _s	1852	1848.4	1754.7	1751.8	1636.9	1635.2	1309.8	1309.8	1301.7	1301.2	1301.2	1301.2	1301.2
20 P = ($\frac{P_t + P_s}{2}$)	1675	1673.3	1589	1587.5	1484.6	1483.7	1187.5	1187.5	1183.5	1183.2	1183.2	1183.2	1183.2
21 P _r = (P/P _{cr})	2.5	2.5	2.38	2.37	2.22	2.22	1.78	1.78	1.77	1.77	1.77	1.77	1.77
22 T _r = (T/T _{cr})	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
23 Z (Table XI)	0.735	0.735	0.743	0.743	0.754	0.754	0.792	0.792	0.794	0.794	0.794	0.794	0.794

PHOENIX
RESOURCES COMPANY

3555 N.W. 58, Suite 300, Oklahoma City, Oklahoma 73112 (405) 947-8690

July 25, 1979

RECEIVED

JUL 27 1979

O. C. C.
ARTESIA, OFFICE

✓
State of New Mexico
Energy and Minerals Department
Oil Conservation Commission
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey
State Petroleum Engineer

Reference: Pressure Buildup Test
Ranch Road #1
Section 20, T19S, R20E
Chaves County, New Mexico

Gentlemen:

This letter is written to confirm your verbal approval to test the subject well as follows:

1. Install a single pen recorder on the upstream side of the choke. Establish flow rate at approximately 500 MCF/D on a positive choke. Allow well to flow for 48 hours on a constant choke setting. (Note: well does not produce liquids).
2. Go in hole with bottom hole pressure bomb, 2000 psi element, and 72-hour clock to 6485'.
3. After bomb has been on bottom for 15 minutes, shut well in.
4. Pull out of hole with bottom hole pressure bomb after approximately 72 hours.
5. Go in hole with bottom hole pressure bomb, 2000 psi element and 12-hour clock, making stops every 1000' to 4000' and then stops every 500' to 6485'.
6. Leave bomb at 6485' for 15 minutes. Pull out of hole making stops at the same depths as above

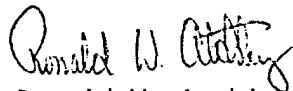
State of New Mexico
Page Two
July 25, 1979

Phoenix Resources Company completed the subject well on May 18, 1979. This well is approximately 6 miles from the nearest pipeline and further tests are required to determine the reservoir drainage radius, permeability and other well parameters.

Phoenix Resources Company will run this test in conjunction with our gas transmission company, Northern Natural Gas Company. This test is considered essential to determine if a pipeline connection to subject well can be justified or if additional development will be required.

Yours very truly,

PHOENIX RESOURCES COMPANY



Ronald W. Atchley
Operations Coordinator

tlb

xc: Jerry Staggs
Phil Koonce - Pleasanton
✓ W. A. Gressett
Oil Conservation Commission
Post Office Drawer D
Artesia, New Mexico 88210
Jim Welch
Northern Natural Gas Company
401 Wall Towers West
Midland, Texas 79701

OPERATOR PHOENIX RESOURCES ADDRESS 3555 northwest 58th Suite 300
OKLAHOMA CITY, OKLAHOMA 73112
LEASE Ranch Road WELL NO. 1 FIELD _____
LOCATION Section 20, T19S, R20W Chaves County, New Mexico

Depth	Inclination degree	Displacement	Displacement Accumulated
160	1 3/4	4.88	4.88
257	3/4	1.27	6.15
406	3/4	2.48	8.63
626	3/4	2.36	10.99
844	3/4	2.86	13.85
1082	3/4	6.52	20.37
1750	1	7.14	27.51
1959	1 1/2	1.82	29.33
2210	3/4	3.29	32.62
2715	1 1/2	4.39	37.01
3000	1 1/2	2.48	39.49
3290	3/4	3.80	43.29
3542	1 3/4	7.69	50.98
3637	3/4	1.24	52.22
3793	3/4	2.04	54.26
4046	2	8.83	63.09
4267	2 1/4	8.69	71.28
4393	1 1/4	2.75	74.53
4520	3/4	1.66	76.19
4615	3/4	1.24	77.43
4868	3/4	3.31	80.74
4963	3/4	1.24	81.98
5247	3/4	3.72	85.70
5500	3/4	3.31	89.01
6000	1	8.75	97.76

(OVER)

I hereby certify that the above data as set forth is true and correct to the best of my knowledge and belief.

CACTUS DRILLING CORPORATION

By: _____
Title: Vice President

Affidavit:

Before me, the undersigned authority, appeared L. A. Rogers known to me to be the person whose name is subscribed herebelow, who, on making deposition, under oath states that he is acting for and in behalf of the operator of the well identified above, and that to the best of his knowledge and belief such well was not intentionally deviated from the true vertical whatsoever.

Affiant's signature

Sworn and subscribed to in my presence on this the 28th day of MAY 19 79.

Notary Public in and for the County
of Midland, State of Texas

Larry R. Virgin

My Commission expires:
April 30th. 1981

10. 11. 1957

028 1 17 1

Not LEGIBLE

— — — — —

Operator Phoenix Resources Co. Lease & No. Ranch Road #1 DST No. 1

[illegible]

Remarks:

Gas Volume Report

Operator Phoenix Resources Co. Lease & No. Ranch Road #1 DST No. 1

[illegible]

Remarks:

LYNES, INC.

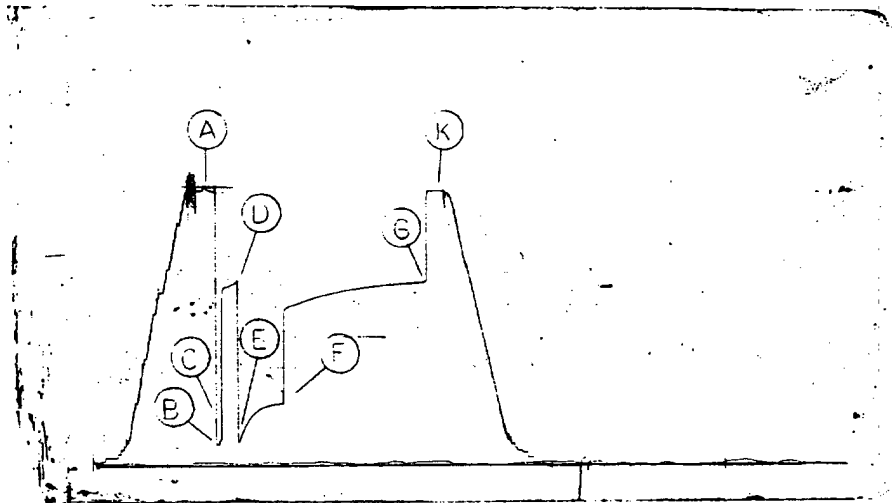
Phoenix Resources Company
Operator

Ranch Road #1

Well Name and No.

1

DST No.



Outside Recorder

PRD Make Kuster K-3

No. 13487 Cap. 5050 @ 6470'

Press		Corrected
Initial Hydrostatic	A	3126
Final Hydrostatic	K	3126
Initial Flow	B	231
Final Initial Flow	C	299
Initial Shut-in	D	2072
Second Initial Flow	E	281
Second Final Flow	F	725
Second Shut-in	G	2086
Third Initial Flow	H	---
Third Final Flow	I	---
Third Shut-in	J	---

Pressure Below Bottom
Packer Bled To

Outside Recorder

PRD Make Lynes DMR 312

No. 143 Cap. 5000 @ 6170'

Press		Corrected
Initial Hydrostatic	A	3130
Final Hydrostatic	K	3130
Initial Flow	B	279
Final Initial Flow	C	339
Initial Shut-in	D	2104
Second Initial Flow	E	335
Second Final Flow	F	734
Second Shut-in	G	2105
Third Initial Flow	H	---
Third Final Flow	I	---
Third Shut-in	J	---

Pressure Below Bottom
Packer Bled To

Phone
713-790-9132

LYNES, INC

Box 12486
Houston, TX 77017

Contractor Cactus Drilling Co.
Rig No. 24
Spot 660' FNL & 1980' FWL
Sec. --
Twp. --
Rng. --
Field Wildcat
County Chavez
State New Mexico
Elevation 4861.9' "K.B."
Formation Atoka

Top Choke 1/4"
Bottom Choke 1/2"
Size Hole 7 7/8"
Size Rat Hole --
Size & Wt. D. P. 4"
Size Wt. Pipe --
I. D. of D. C. 2 1/4"
Length of D. C. 508'
Total Depth 6900'
Interval Tested 6462-6578'
Type of Test Inflate
Straddle

Flow No. 1 10 Min.
Shut-in No. 1 28 Min.
Flow No. 2 90 Min.
Shut-in No. 2 269 Min.
Flow No. 3 -- Min.
Shut-in No. 3 -- Min.
Bottom
Hole Temp. 129°
Mud Weight 9.3
Gravity --
Viscosity 40

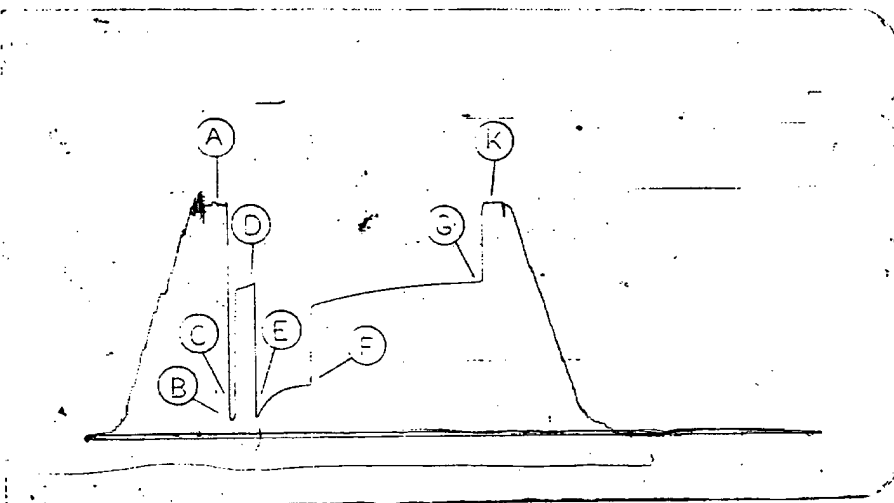
Tool opened @ 8:39

Outside Recorder

PRD Make Kuster K-3
No. 13029 Cap. 5950 @ 6470'

	Press	Corrected
Initial Hydrostatic	A	3145
Final Hydrostatic	K	3145
Initial Flow	B	246
Final Initial Flow	C	299
Initial Shut-in	D	2078
Second Initial Flow	E	291
Second Final Flow	F	730
Second Shut-in	G	2090
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist. Hobbs, New Mex.
Our Tester: Mike Gray
Witnessed By: J.B. Mann



Did Well Flow -- Gas Yes Oil No Water No

RECOVERY IN PIPE: 335' Drlg. mud = 1.64 BBL.

Top Sample: 21,000 ppm. chl.
Middle Sample: 20,000 ppm. chl.
Bottom Sample: 24,000 ppm. chl.

Blow Description:

1st Flow: Tool opened with weak blow, increased to a strong blow in 1 minute. Gas to surface in 8 minutes.

2nd Flow: Tool opened with gas to surface. (See gas volume report).

RECEIVED

JUL 16 1979

O. C. C.
ARTESIA, OFFICE

Operator Phoenix Resources Company
Address See Distribution

Well Name and No. Ranch Road #1
Ticket No. 14307

Date 5-11-79

DST No. 1
No. Final Copies 18

Contractor Cactus Drilling Co.
Rig No. 24
Spot 660' FNL & 1980' FWL
Sec. ---
Twp. ---
Rng. ---
Field Wildcat
County Chavez
State New Mexico
Elevation 4861.9' "K.B."
Formation Atoka

Top Choke 1/4"
Bottom Choke 1/2"
Size Hole 7 7/8"
Size Rat Hole ---
Size & Wt. D. P. 4"
Size Wt. Pipe ---
I. D. of D. C. 2 1/4"
Length of D. C. 508'
Total Depth 6900'
Interval Tested 6462-6578'
Type of Test Inflate
Straddle

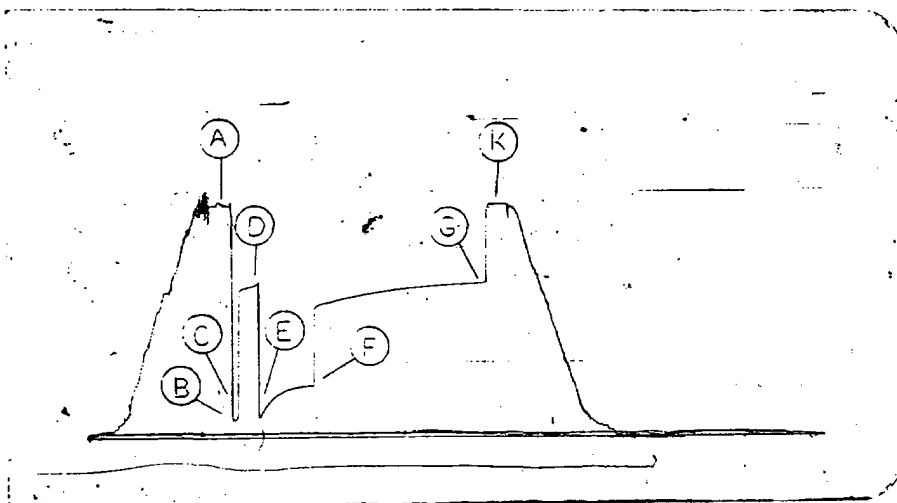
Flow No. 1 10 Min.
Shut-in No. 1 28 Min.
Flow No. 2 90 Min.
Shut-in No. 2 269 Min.
Flow No. 3 --- Min.
Shut-in No. 3 --- Min.
Bottom
Hole Temp. 129°
Mud Weight 9.3
Gravity ---
Viscosity 40

Tool opened @ 8:39

Outside Recorder

PRD Make Kuster K-3
No. 13029 Cap. 5950 @ 6470'
Press Corrected
Initial Hydrostatic A 3145
Final Hydrostatic K 3145
Initial Flow B 246
Final Initial Flow C 299
Initial Shut-in D 2078
Second Initial Flow E 291
Second Final Flow F 730
Second Shut-in G 2090
Third Initial Flow H ---
Third Final Flow I ---
Third Shut-in J ---

Lynes Dist.: Hobbs, New Mex.
Our Tester: Mike Gray
Witnessed By: J.B. Mann



Did Well Flow - Gas Yes Oil No Water No

RECOVERY IN PIPE: 335' Drlg! mud = 1.64 BBL.

Top Sample: 21,000 ppm. chl.
Middle Sample: 20,000 ppm. chl.
Bottom Sample: 24,000 ppm. chl.

Blow Description:

1st Flow: Tool opened with weak blow, increased to a strong blow in 1 minute. Gas to surface in 8 minutes.

2nd Flow: Tool opened with gas to surface. (See gas volume report).

RECEIVED

JUL 16 1979

O. C. C.
ARTESIA, OFFICE

Operator
Phoenix Resources Company

Well Name and No. Ranch Road #1

Date 5-11-79

DST No.
No. Final Copies 18