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appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

MAY 02 '94

Form C-122 *dst*
Revised 4-1-91 *file*

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

ARTESIAN

8 1994

MULTIPOINT AND ONE POINT BACK PRESSURE TEST *RECEIVED APR 8 1994*

Operator STEVENS & TULL					Lease or Unit Name NASSER FED				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-29-94		Well No. 1		
Completion Date 3-24-94		Total Depth 8050		Plug Back TD 7990		Elevation		Unit Ltr. - Sec. TWP. - Rge. H 1 21S 21E	
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 8223	Perforations: From: 7862 To: 7868			County EDDY		
Tbg. Size 2 3/8"	Wt. 4.7#	d 1.99	Set At 7778	Perforations: From: To:			Pool <i>Little Boy Canyon Mar</i>		
Type Well - Single - Bradenhead - G.G. or P.O. Multiple single				Packer Set At 7778		Formation MARROW			
Producing Thru TEG		Reservoir Temp. °F 145		Mean Annual Temp. °F		Baro. Press - P. 13.2		Connection AIR	
L 7865	II 7865	Gg. .597	% CO ₂ .47	% N ₂ .31	% H ₂ S	Prover	Meier Run 4.026	Taps FLANGE	

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.		Temp. °F
SI						2300				
1.	4.026 X	1.500	420	3	108	1390	52	PKR.		1 hr.
2.	4.026 X	1.500	420	4	120	1140	52			1 hr.
3.	4.026 X	1.500	420	5	120	835	54			1 hr.
4.	4.026 X	1.500	420	6	110	590	54			1 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\frac{h_w}{P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	10.84	36.05	433.2	.9568	1.294	1.027	497
2.	10.84	41.63	433.2	.9469	1.294	1.027	568
3.	10.84	46.54	433.2	.9469	1.294	1.027	635
4.	10.84	50.98	433.2	.9551	1.294	1.027	701
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf/bbl.
1.	.65	568	1.60	.949	A.P. I. Gravity of Liquid Hydrocarbons	DRY	Deg.
2.	.65	580	1.64	.949	Specific Gravity Separator Gas	.597	XXXXXXXXXX
3.	.65	580	1.64	.949	Specific Gravity Flowing Fluid	DRY	XXXXXX
4.	.65	570	1.61	.949	Critical Pressure	672	P.S.I.A. P.S.I.A.
5.					Critical Temperature	354	R R

p _c 2313.2		p _c 5350.9		
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		1405.2	1974.7	3376.2
2.		1156.5	1337.5	4013.4
3.		854.0	729.4	4621.5
4.		613.5	376.4	4974.5
5.				

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.076$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 752$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.072$$

Absolute Open Flow	752	Mcf @ 15.025	Angle of Slope θ	46°	Slope, n	.95861
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Remarks: **NO FLUID MADE DURING TEST**

Approved By Division	Conducted By: PRO WELL TESTERS R.A.	Calculated By: K.S.	Checked By: B.M.
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PAGE START DATE: 3/29/94

GAUGE E/N: 76902

DATA FILE: 2

DATA POINT	REAL TIME	DELTA TIME HRS	DEFLECTION IN	PRESSURE PSIA	COMMENTS
1	10:45: 0	0.000	1.8050	2784.49	START RATE 1
2	11: 0: 0	0.250	0.5600	2145.92	
3	11:15: 0	0.500	0.5943	1911.91	
4	11:30: 0	0.750	0.5495	1767.50	
5	11:45: 0	1.000	0.5218	1678.21	START RATE 2
6	12: 0: 0	1.250	0.4825	1551.53	
7	12:15: 0	1.500	0.4587	1458.70	
8	12:30: 0	1.750	0.4408	1417.12	
9	12:45: 0	2.000	0.4289	1378.76	START RATE 3
10	13: 0: 0	2.250	0.3580	1150.22	
11	13:15: 1	2.500	0.3040	1079.50	
12	13:30: 1	2.750	0.2227	1039.68	
13	13:45: 1	3.000	0.3187	1023.54	START RATE 4
14	14: 0: 1	3.250	0.2578	926.59	
15	14:15: 1	3.500	0.1635	748.90	
16	14:30: 1	3.750	0.0050	754.38	
17	14:45: 0	4.000	0.2370	760.18	END OF TEST

RECEIVED

MAY 02 1984

U.S. DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION

COMPANY: PRO WIRELINE
CLIENT: STEVENS & TULL
GAUGE NUMBER: 76933
WELL NAME: NASSEF FEDERAL
WELL NUMBER: 1
TEST NUMBER:
LOCATION:
TEST OPERATOR: RANDOLPH
COMMENTS: FOUR POINT FLOW TEST

RECEIVED

MAY 02 '94

G. C. D.
ARTESIA, OFFICE

Plot starting date: 3/29/94

time: 16: 0: 0

Gauge S/N 76933

Company: PRO WIRELINE

Client: STEVENS & TULL

Well name: NASSER FEDERAL

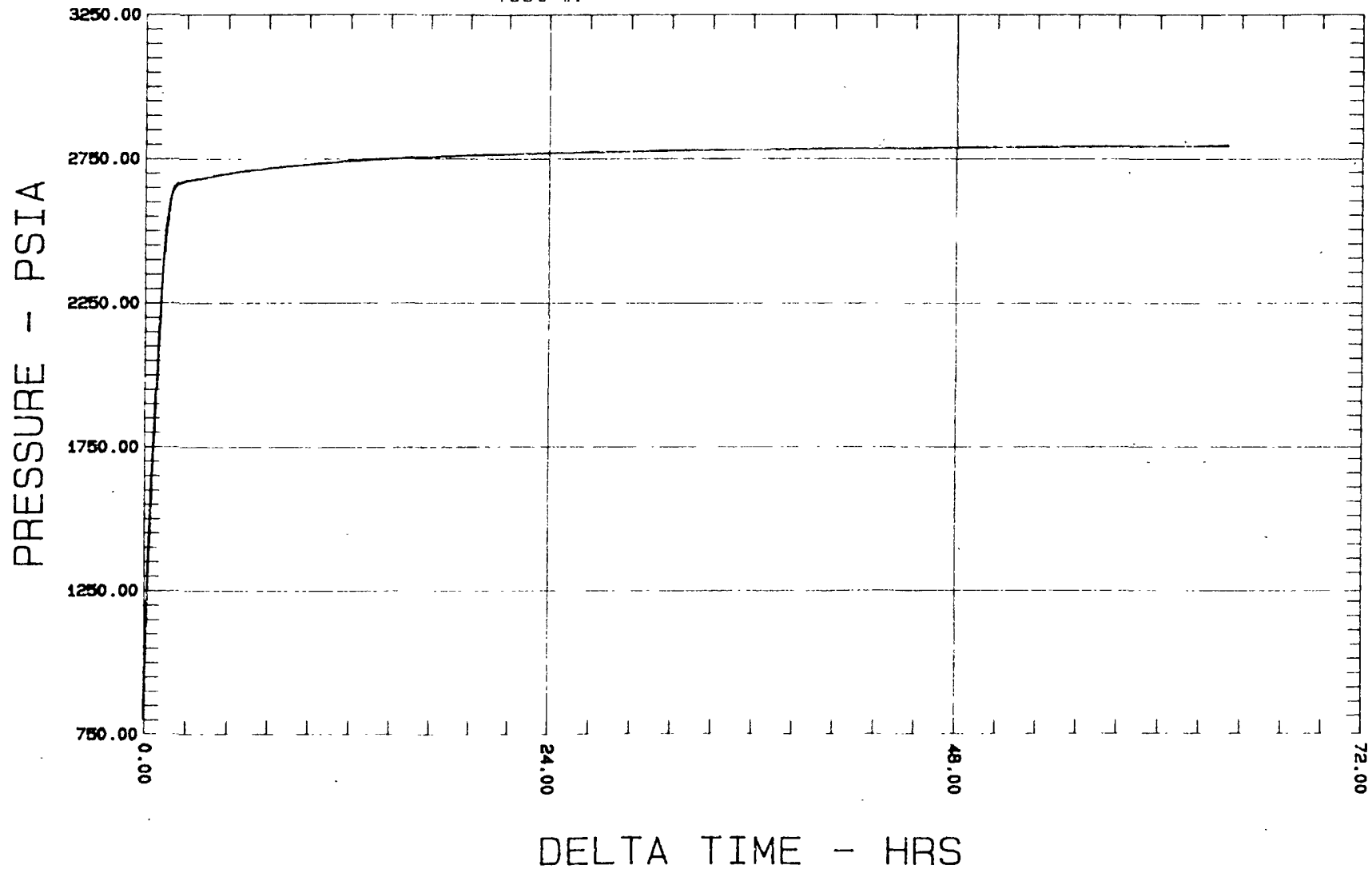
Well #: 1

Test #:

Location:

Operator: RANDOLPH

Comments: 72 HOUR BUILD UP



PAGE START DATE: 3/29/94

GAUGE 5" IN 72935

DATA FILE: 2

DATA POINT	REAL TIME	DELTA TIME HRS	DEFLECTION IN	PRESSURE PSIA	COMMENTS
1	16: 0: 0	0.000	0.2534	803.32	WELL SHUT IN
2	16: 5: 1	0.084	0.3214	1032.24	
3	16:10: 3	0.167	0.2730	1202.77	
4	16:15: 5	0.251	0.4030	1356.32	
5	16:20: 7	0.335	0.4440	1486.72	
6	16:25:17	0.421	0.4920	1609.16	
7	16:30:44	0.512	0.5330	1724.61	
8	16:35:21	0.599	0.5370	1835.32	
9	16:40: 6	0.668	0.5870	1943.09	
10	16:45:42	0.762	0.6070	2039.96	
11	16:50:43	0.845	0.6030	2134.30	
12	16:55: 3	0.917	0.5850	2221.63	
13	17: 0: 5	1.001	0.7140	2299.04	
14	17: 5: 7	1.085	0.7530	2374.80	
15	17:10: 1	1.167	0.7350	2440.91	
16	17:15: 2	1.251	0.7750	2495.35	
17	17:20:13	1.337	0.7900	2537.77	
18	17:25: 6	1.418	0.8000	2572.58	
19	17:30: 0	1.500	0.8105	2608.81	
20	17:35:10	1.586	0.8170	2630.41	
21	17:40: 3	1.667	0.8216	2644.59	
22	17:45: 5	1.751	0.8244	2653.62	
23	17:50: 7	1.835	0.8200	2658.78	
24	17:55: 1	1.917	0.8275	2663.61	
25	18: 0:19	2.005	0.8282	2665.87	
26	18:10:23	2.173	0.8291	2668.77	
27	18:20: 2	2.334	0.8303	2672.64	
28	18:30:14	2.504	0.8310	2674.90	
29	18: 0: 0	3.000	0.8324	2679.41	
30	19:30:11	3.503	0.8338	2682.92	
31	20: 0: 6	4.002	0.8350	2691.01	
32	21: 0:20	5.006	0.8332	2701.33	
33	22: 0: 9	6.002	0.8416	2709.71	
34	0: 0:12	9.003	0.8460	2733.25	
35	1: 0: 7	10.002	0.8491	2733.24	
36	2: 0:25	12.010	0.8521	2742.91	
37	3: 0: 8	16.002	0.8560	2755.48	
38	12: 0: 5	20.001	0.8589	2764.83	
39	16: 0:12	24.003	0.8608	2770.95	
40	0: 0: 7	32.002	0.8639	2780.95	
41	8: 0:26	40.008	0.8651	2784.81	
42	16: 0: 7	48.001	0.8606	2799.65	
43	0: 0:11	56.002	0.8677	2793.19	
44	8: 0:23	54.006	0.8621	2795.77	
45	16: 0: 2	72.001	0.8583	2797.06	END OF TEST

COMPANY: PPO WIRELINE
CLIENT: STEVENS & TILL
GAUGE NUMBER: 76933
WELL NAME: NASSER FEDERAL
WELL NUMBER: 1
TEST NUMBER:
LOCATION:
TEST OPERATOR: RANDOLPH
COMMENTS: 72 HOUR BUILD UP