COUNTY EDDY FIELD Avalon STATE NM

OPR MONSANTO CO. API 30-015-21500

NO 1 LEASE Coquina Federal SERIAL 6-2-8 NM

Sec 31, T-20-S, R-27-E MAP

1980' FSL, 1980' FEL of Sec CO-ORD [redacted] LAS

5 mi N & 3 mi W/Carlsbad ELEV

SPD 3-25-75 CMP 5-27-75 WELL CLASS: INIT. D FIN DG

CSG

FORMATION	DATUM	FORMATION	DATUM
TD 10,780' (BRNE)		PBD 10,740'	

13 3/8" at 500' w/600 sx
9 5/8" at 2080' w/950 sx
5 1/2" at 10,780' w/1000 sx

IP (Morrow) Perfs 10,676-704' CAOF 295 MCFGPD, GOR Dry; Grav (Gas) .646, [illegible] 3243#

CONTR Sharp ELEV 3228' GL, 3243' DF, 3243' RT

F.R. 3-24-75
(Morrow)

3-26-75 Drlg 350'
4-1-75 Drlg 2020'
4-9-75 Drlg 5056'
4-16-75 Drlg 7755'
4-23-75 TD 8834'; Lost Circ
Lost Circ @ 8788'
4-30-75 Drlg 9830'
DST (Pennsylvanian) 9407-9448', open 1 hr 30 mins, GTS 20 mins in [illegible] MCFGPD, [illegible] & Cond CM, 1 hr ISIP 4032#, FP 86-107#, 2 hr FSIP 4052#, HP 4448-4052#
5-7-75 Drlg 10,747'
DST (Morrow) 10,440-495', open 1 hr 30 mins, rec 200' wtr + 400' WCDM, 2 hr ISIP 4064#, FP 232-324#, 2 hr FSIP 4203#, HP [illegible]-4948#

6-2-8 NM

EDDY
MONSANTO CO.

Avalon
1 Coquina Federal
Sec 31, T20S, R27E

NM

5-14-75 [redacted]
TD 10,780', PBD 10,740'; WOCU
DST (Morrow) 10,647-780', open 3 hrs 30 mins. [illegible]
7 mins @ 1060 MCFGPD incr 2110 MCFGPD thru 1/2"
chk, SFP 380#, rec 800' HGCM. 1 hr ISIP 4433#,
[illegible] hr FSIP 4226#

5-21-75 [illegible]

5-28-75 TD 10,780' PBD 10,740'; Rng 4 [illegible]
Perf (Morrow) 10,676-682', 10,700-704' w/2 SPF
Flwd [illegible] MCFGPD thru 1/2" chk. [illegible] 10,[illegible]
704' [illegible]

[illegible] WO [illegible]

[illegible]

5-2-8 NM

6-9-75 Continued
(Morrow) FOUR [illegible]
[illegible] Morrow [illegible]
Flwd 740 MCF [illegible]
Flwd [illegible]
Flwd [illegible]
SAMPLE [illegible]
[illegible] Aroka
[illegible]

6-14-75 COMPLETION [illegible]

5-2-8 NM

C-122

NEW [illegible]XICO OIL CONSERVATION COMMISSI[illegible]

MULTIPOINT AN[illegible] [illegible]NE POINT BACK PRESSURE TEST [illegible]R GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

JUN 2 1975

O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial	[ ] Annual	[ ] Special	Test Date: 5-27-75	
Company: Monsanto Company		Connection: None		
Pool: [illegible]		Formation: Morrow		Unit
Completion Date: 5-27-75	Total Depth: 10,780	Plug Back TD: 10,740	Elevation: 3228 Gr / 3243 KB	Farm or Lease Name: Coquina Federal
Csg. Size: 5 1/2	Wt.: 17#	d:	Set At: 10,780	Perforations: From 10,682 To 10,700	Well No.: 1
Tbg. Size: 2 3/8 Nu Loc	Wt.: 4.7#	d: 1.995	Set At: 10,427	Perforations: From To	Unit: J, Sec.: 31, Twp.: 20-S, Rge.: 27-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 10,427		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 165 @	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,690	10,690	.640					X	

	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	1[illegible] Hours						3243	76			
1.	4.0		1.0	790	15	89	2050	74			1 Hr
2.	4.0		1.0	790	18	92	1468	76			1 Hr
3.	4.0		1.0	790	21	96	1280	78			1 Hr
4.	4.0		1.0	790	24	93	1214	78			1 Hr
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	4.753	109.76	803.2	.9732	1.2500	1.067	677
2	4.753	120.23	803.2	.9706	1.2500	1.067	740
3	4.753	129.87	803.2	.9671	1.2500	1.065	795
4	4.753	134.84	803.2	.9697	1.2500	1.065	8[illegible]2
5							

NO.	P_r	Temp. °R	T_r	Z
1	1.20	549	1.48	.878
2	1.20	552	1.48	.878
3	1.20	556	1.49	.881
4	1.20	553	1.49	.881
5				

Gas Liquid Hydrocarbon Ratio ________ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons: None Produced Deg.

Specific Gravity Separator Gas: .640 | X X X X X X X X X

Specific Gravity Flowing Fluid: X X X X X

Critical Pressure: 670 P.S.I.A. | 670 P.S.I.A.

Critical Temperature: 372 R | 372 R

P_c [illegible] P_c^2 [illegible]

NO.	P_w	P_w^2	$P_c^2 - P_w^2$
1	2067.7	4275	6327
2	148[illegible]	[illegible]	8526
3	130[illegible]	[illegible]	[illegible]
4	122[illegible]	[illegible]	[illegible]

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{10602}{9078}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .1678$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 995$

posted 6-6-75

Absolute Open Flow: 995 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: [illegible]

Remarks:

Approved By Commission:	Conducted By: [illegible] Overstreet, WEST TEXAS CONSULTING SERVICE, INC.	Calculated By: [illegible] Hasler	Checked By: