

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

Form C-122
Revised 9-1-65

RECEIVED *C-5F*

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 07-15-80		JUL 28 1980 O. C. D. ARTESIA, OFFICE	
Company BASS ENTERPRISES				Location ATR			
Well UNDESIGNATED				Formation STRAWN		Unit	
Completion Date 07-12-80		Total Length		Flow Rate To 12359		Elevation KB 3166	
Csg. Size 5 1/2		ID 17#		Perforations From 10904 To 10910		Well No. # 64	
Tub. Size 2 3/8		WT. 4.7		Perforations From To		Unit Sec. Twp. Rge. N 33 21s 28e	
Type well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE				Factor Set At 10804		County EDDY	
Producing Thru TBG.		Reservoir Temp. °F 182# 10800		Mean Annual Temp. °F 60		State NEW MEXICO	
L 10800		H 10800		Gg .666		Prover 4"	
				% CO ₂ .658		% H ₂ S 1.042	
				% N ₂		Meter Run 4"	
						Type FLG.	

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							3625				72 HR.
1.	4 X 1.000			400	2.0	114	3400				1 HR.
2.	4 X 1.000			400	4.0	118	3320				1 HR.
3.	4 X 1.000			440	17.0	120	2810				1 HR.
4.	4 X 1.000			480	26.0	98	2000				4 HR.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{spv}	Rate of Flow Q, Mhd
1	4.753	28.75	413.2	.9518	1.225	1.033	165
2	4.753	40.65	413.2	.9485	1.225	1.033	232
3	4.753	87.77	453.2	.9469	1.225	1.034	500
4	4.753	113.24	493.2	.9653	1.225	1.043	664
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.62	574	1.50	.937	21.455	41 @ 60	.666	.817	669	382
2	.62	578	1.51	.938						
3	.68	580	1.52	.935						
4	.74	558	1.46	.919						
5										

P _r * 4351.3 P _r ² 18934.0				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 6.078$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.255$	
NO.	BHP	P _w	P _w ²	P _c ² - P _w ²	$4. \text{ or } 5. \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.628$		
1	5453.2	4280.2	18319.8	614.2			
2	5407.2	4240.8	17984.3	949.7			
3	5106.2	3977.3	15818.6	3115.0			
4	4208.2	3212.9	10323.0	8611.0			
5							

Absolute Open Flow		McM @ 15.025		Angle of Slope α		Slope, n	
1,628				56.75		.654	

Remarks: THE WELL PRODUCED 22.7 BBLS. OF H₂O and 6.9 BBLS. OF DISTILLATE DURING THE TEST.

Approved By: Commission	Conducted By:	Calculated By:	Checked By:
	DAVIS SERVICES INC.	RICK PAGAN	

~~BASS ENTERPRISES PRODUCTION COMPANY~~

BIG EDDY UNIT No. 64

4-POINT BACK PRESSURE TEST, & BOTTOM

HOLE PRESSURE BUILD-UP TEST

TABULATION OF TIMES AND PRESSURES

TEST CONDUCTED BY:

JOHN WEST ENGINEERING COMPANY

TEST DATE: JULY 15, TO JULY 20, 1980

TEST DEPTH: 10,800 FEET

ELEMENT No.: 8534

OPERATOR: B.J.T.

DATE	TIME	CUM. HRS. / MIN.		PSIG @ 10,800 FEET
7-15-80	10:30 AM			5518 GAUGE REACHED 10,800 FEET
	11:00 AM	00 HRS.	00 MIN.	5518 OPEN CHOKE; BEGIN 4-POINT
	11:15 AM	00	15	5492
	11:30 AM	00	30	5458
	11:45 AM	00	45	5446
	12:00 NOON	01	00	5440 END RATE I
7-15-80	12:15 PM	01	15	5423
	12:30 PM	01	30	5408
	12:45 PM	01	45	5400
	1:00 PM	02	00	5394 END RATE II
7-15-80	1:15 PM	02	15	5307
	1:30 PM	02	30	5211
	1:45 PM	02	45	5153
	2:00 PM	03	00	5093 END RATE III
7-15-80	2:15 PM	03	15	4934
	2:30 PM	03	30	4746
	2:45 PM	03	45	4471
	3:00 PM	04	00	4312
	3:15 PM	04	15	4251
	3:30 PM	04	30	4107
	3:45 PM	04	45	3988
	4:00 PM	05	00	3899
	4:30 PM	05	30	3916
	5:00 PM	06	00	3991
	5:30 PM	06	30	4110
	6:00 PM	07	00	4194 END RATE IV; END 4-POINT
7-15-80	6:00 PM	00 HRS.	00 MIN.	4194 SHUT-IN; BEGIN BUILD-UP
	6:15 PM	00	15	4344
	6:30 PM	00	30	4494
	6:45 PM	00	45	4647
	7:00 PM	01	00	4798
7-15-80	7:30 PM	01	30	4936
	8:00 PM	02	00	5038
	8:30 PM	02	30	5142
	9:00 PM	03	00	5345
7-15-80	10:00 PM	03	00	5382
	11:00 PM	04	00	5432
7-16-80	12:00 MIDNIGHT	05	00	5452
7-16-80	2:00 AM	06	00	5469
	4:00 AM	08	00	5489
7-16-80	9:00 AM	13	00	5515
	2:00 PM	20	00	5533

CONTINUED ON FOLLOWING PAGE

BASS ENTERPRISES PRODUCTION COMPANY
 BIG EDDY UNIT No. 64
 4-POINT BACK PRESSURE TEST, & BOTTOM HOLE
 PRESSURE BUILD-UP TEST
 TABULATION OF TIMES AND PRESSURES

CONTINUED FROM PRECEEDING PAGE

<u>DATE</u>	<u>TIME</u>	<u>CUM. HRS. / MIN.</u>	<u>PSIG @ 10,800 FEET</u>
7-16-80	7:00 PM	25 Hrs. 00 Min.	5544
7-17-80	12:00 MIDNIGHT	30 00	5550
7-17-80	10:00 AM	40 00	5565
	8:00 PM	50 00	5576
7-18-80	6:00 AM	60 00	5588
	4:00 PM	70 00	5594
7-19-80	2:00 AM	80 00	5597
	12:00 NOON	90 00	5602
	10:00 PM	100 00	5608
7-20-80	8:00 AM	110 00	5608
7-20-80	11:00 AM	113 00	5608 END TEST