Enfield

Exhibits 1 through 6

ROBERT N. ENFIELD No. 3 BUNNEL-FEDERAL

Eleve .1: 41001 DF

Robert N. Enfield

Eddy County, NM Case No. 8259

August 3, 1984

4 Indian Basin Field

Exhibit

- 1-29-65: Building location and moving in cable tool.
- 1-30-65: Rigged up cable tool. Spudded, 3:00 p.m.
- 1-31-65: Drilling at 2' in lime.
- 2- 1-65: Drilling at 7' in lime.
- 2- 2-65: Drilling at 25' in lime.
- 2- 3-65: Drilling at 35' in lime.
- 2- 4-65: Drilling at 45' in lime.
- 2- 5-65: Drilling at 50' in lime.
- 2- 7-65: Drilling at 65' in lime.
- 2- 9-65: Drilling at 85° in lime and anhydrite.
- 2-10-65: Drilling at 90' in lime.
- 2-11-65: Drilling at 100' in lime.
- 2-12-65: Drilling at 110' in hard lime, dry hole.
- 2-13-65: Drilling at 115' in lime.
- 2-14-65: Drilling at 120' in hard lime.
- 2-15-65: Drilling at 123' in hard lime.
- 2-16-65: Drilling at 130' in hard lime.
- 2-17-65: Drilling at 135 in hard lime.
- 2-18-65: Drilling at 145 in lime.
- 2-19-65: Drilling at 150' in lime.
- 2-20-65: Drilling at 155' in hard lime.
- 2-21-65: Drilling at 160 in lime.
- 2-22-65: Drilling at 165 in lime.
- 2-23-65: Drilling at 170 in lime.
- 2-24-65: Drilling at 175' in lime.
- 2-25-65: Drilling at 185 in lime.
- 2-26-65: Drilling at 195 in hard line.
- 2-27-65: Drilling at 210 in lime, some gravel, no water.
- 2-28-65: Drilling at 215' in lime $12\frac{1}{2}$ " hole.
- Drilling 122" hole at 225' in lime. Hit a crevice; lost all fluid out 3- 1-65: of hole; hole is dry, no water in crevice. Anticipate possible crooked
- 3- 2-65: Drilling at 230' in lime.
- 3- 3-65: Drilling at 235' in lime.
- 3- 4-65: Drilling at 240' in lime. No indication that hole is going crooked. Just now far enough past crevice that hole is holding some water.
- 3- 5-65: Drilling at 255' in lime.
 3- 6-65: Drilling at 270' in lime.
 3- 7-65: Drilling at 285' in lime.
- 3-9-65: Drilling at 315' in lime
- 3-10-65: Drilling at 330' in lime.

ROBERT N. ENFIELD NO. 1 BUNNEL-FEDERAL:

- 3-11-65: Drilling at 335' in lime.
- 3-13-65: Drilling at 345' in lime. Hole is dry.
- 3-15-65: Drilling at 385' in lime. Hole is still dry.
- 3-16-65: Drilling at 400' in lime. Hole dry.
- 3-17-65: Drilling at 415' in lime.
- 3-18-65: Drilling at 420' in very hard lime.
- 3-19-65: T.D. 4201, fishing.
- 3-19-65: Temporarily suspended operation. TD 427
- 7-24-65: 13-3/8" at 222', 200 sax cement, 2% Galcium Chloride, 4# Flow Seal per sack. WOC.
- 7-25-65: 6031. Totco, 4501, 120.
- 7-26-65: 1,125'. Totco, 950', 2%.
- 7-27-65: T.D. 1532. Getting ready to run intermediate casing at that depth.
- 7-28-65: T.D. 1532'. Set 8-5/8" csg. at 1532' w/775 sax cement: (300 sax of 50-50 Poz., 8% gel, 2% ca-ch; 425 sax 50-50 Poz, 4% gel, 2% ca-chl; 50 sax neat) Plugged down at 5:00 a.m. 7/28/65. Cement did not circulate. Prep to go down back side.
- 7-29-65: T.D. 1532'. WOC. Set 250 sacks neat, 7 sacks cal-chl. by stages.
- 7-30-65: T.D. 1532'. Prep to commence drilling.
- 7-31-65: Tested 8-5/8" with 1500#. Held okay. T.D. 2,000. Totco at $1825^{\circ} 1\frac{1}{2}^{\circ}$.
- 8-1-65: Drilling with water at 2985' in sandy lime. Totco at $2680' 1\frac{1}{2}$.
- 8-2-65: Drilling at 3240' in lime and chert. Totco at 3130' $-\frac{10}{2}$.
- 8-3-65: Drilling at 3665' in lime. Totco at 3378' 1°; 3530' --2°; 3620' 2°.
- 8- 4-65: Drilling at 3965' in lime. Totco at 3950' 2-3/4'.
- 8- 5-65: T.D. 4220' in lime. Making a trip for hole in drill pipe. Totco: 4007' 3°; 4078' 3°; 4179' 3/°.
- 8-6-65: Drilling with water at 4565° , lime. Totco, $4540^{\circ} 4^{\circ}$.
- 8-9-65: Drilling at 5600' in lime and shale. Totco, 5530': 210. Mud: 34 Visc., 8.4 weight, water loss 10, filter cake 1/32. Mudded up at 5200'/
- 3-10-65: Drilling at 5915' in lime. Totco, 5700' 3°. MUD: Visc., 34; wt., 8.7; water lloss, 12; filter cake, 1/32.
- 8-11-65: Drilling at 6295' in lime. Totco, 6120' 210. MUD: Visc 35, wt 28, wl 28, filter cake 1/32.

 T.D. 6325', prep to DST the Wolfcamp. Interval: 6050' 6325'.

 Tool open at 3:30 P.M.
- 8-12-65: Drilling at 6460' in lime. Totco, 5320' 2°(Assume 6420')

DST No. 1, 6050' - 6325', Wolfcamp. Tool open one hr. Gas to surface in 10 min. Too small to measure. Estimated 30-40,000 CFPD. Continued to gas throughout - TSTM. Rec. 830' slight oil and highly gas cut mud plus 220' slight oil and gas and salt water cut mud. Pressures: 60" initial shut-in, 2363#. Flow pressure, 330-488. 60" FSI, 2297#: iHydrostatic, 2930- 2930#, in & out.

T/Bone Spring, 2830' (/1370')

T/Wolfcamp (Grn) Shale, 5280' (~1180')

02/6

32AD

ROBERT N. ENFIELD NO. 1 BUNNEL-FEDERAL:

- 8-13-65: Drilling at 6745' in lime and shale. Totco at 6740' 1°. MUD: visc., 35; wt., 8.7; water loss, 8; filter cake, 1/32.
- 8-16-65: T.D. 7400°. Prep. to DST #2, interval from 7000° to 7400°, (Cisco-Canyon).
 Tool open: 2 hrs. GTS: 4 min. Est. 900 MCF, decreasing to 600 MCF.
 Recovered 300° heavy gas cut mud. Pressures: 1 hr ISI, 2867#; FP, 240-270#; 2 hr FSI, 3021#.
- 8-17-65: T.D. 7500'. Prep to DST #3, 7395'-7500'. Tool will be open about 3:30 P.M.
- Expect to
 8-18-65: T.D. 7500'. Commenced logging at 11:00 A.M. DST #3, 7395' 7500'.

 Initial shut-in, 1 hr. No pressure; tool failed. Flow pressure:

 open one hour. Small to fair blow thruout test. Recovered 45' of

 gas cut mud. FP, 45-45#. 60" FSIP, 1054#. Hydro. head, 3503#, in & out.

 Sample top/Cisco-Canyon lime, 6990'.
- 8-19-65: T.D. 7500. Circulating. WOO. Ran Schlumberger logs: Electrical Log Induction, Gamma-Ray Density, Sidewall Neutron porosity Log. Went back in hole with drill pipe, prep to lay down drill pipe.

 Log top/ Cisco Canyon. 6990.
- 8-20-65: T.D. 7500'. WOC. Set $4\frac{1}{2}$ " casing at 7500' with 350 sacks Incor Poz with 2% gel.
- 8-23-65: T.D. 7500. Prep to perforate 7442-48, 7408-18, 7310-36 with one shot per foot.
- 8-24-65: T.D. 7500. Plug back, 7365. Testing above perforations with 500 gallons acid.
- 8-25-65: T.D.7500'. Testing. Perforated 7320-30 (note correction), 7408-18, 7442-48 with 1 jet shot per foot. Went in hole with 2" tbg. Set retrievable plug at 7460'. Set packer at 7385'. Acidized perfs 7408-18 and 7442-48 w/500 gals. Swabbed back acid water and acid gas. No shows. Pulled retrievable plug up to 7365'. Pulled packer to 7302'. Acidized perfs 7320-30 with 500 gals. Swabbed back acid water and well started flowing gas at estimated rate of 500 MCFD. Re-acidized perfs 7320-30 with 2500 gallons acid. Swabbed and started flowing at estimated rate of 1500 MCFD. Re-acidized perfs 7320-30 with 10,000 gals. retarded acid. Swabbing back acid water.
- 8-26-65: T.D. 7500*. Plug back T.D., 7365*. Testing. Swabbed perfs 7320-30 of acid water. Well started flowing an estimated 600 MCFPD. Now testing tubing and packer for a leak.
- 8-27-65: T.D. 7500. PB T.D., 7365'. Prep to run tracer survey. Lowered packer and tested in blank pipe. Showed packer leakage. Pulled packer, bridge plug, and tubing. Perforated 7260-88' with one jet shot per foot. Went back in hole with BP, Pkr & tbg. Set BP at 7302'. Set Pkr at 7239'. Acidized perfs 7260-88' with 1,000 gals. Formation started taking fluid immediately. Maximum treating pressure, 3600#. Initial Shut Down Pressure, 2300#. Treatment pressure indicated possible communication. After swabbing acid water, well started flowing at 600 MCFPD. Lowered BP to 7365'. Set Pkr at 7302'. Pumped water into perfs 7320-30'. Water communicated and flowed out annulus.
- 8-28-65; T.D. 7500'. Ran tracer survey. Survey showed communication from 7330-7156'. Pulled bridge plug, packer, & 2" tbg. Squeezed with 200 sacks through perfs 7260-88', 7320-30', 7408-18', & 7442-88'. Tested w/5,000#. Held okay.
- 8-29-65: WOC.
- 8-30-65: Prep to drill out cement.

ROBERT N. ENFIELD NO. 1 BUNNEL FEDERAL:

- 8-31-65: T.D. 7500'. PB TD, 7450'. Prep to swab. Drilled out cement to 7450'. Pressured up with 2,000# at 7300', 7375', 7450'. Pressured up w/3800# @ 7450'. Held okay. Ran correlation log to drilled out TD 7438' by log. Perforated one jet shot per foot at 7323'-24'-25'. Perforated one jet shot per ft. at 7266-68-70-72-74-76-78-80. Ran BP, pkr and 2" tbg in hole. Set BP @ 7383'. Spotted acid @ 7320'. Set pkr at 7293'. Started pumping 500 gals. acid into perfs 7323-24-25'. Formation started taking fluid at 4400#. Broke back to 3800#. After 200 gals, acid communicated to upper perforations. Moved packer to 7246'. Pumped remaining 300 gals acid into formation @ 3000#. Five Min. shut-in press., 2500#.
- 9-1465: T.D. 7500'. PBTD, 7246'. Testing. Swabbed acid water from perfs 7323-24-25' and perfs 7266-68-70-72-74-76-78-80'. Swabbed dry. Set BP @ 7246 & pulled tbg to 7130'. Perf'd 7206-24- w/l JSPF. Set pkr. @ 7157'. Acidized perfs 7206-24 w/500 gals. mud acid. Formation started taking fluid @ 2300#. Initial shut down pressure, 3600#. Swabbed acid water w/show gas. TSTM. Checking for leak in BP.
- 9-2-65: T.D. 7500'. PBTD, 7157'. Swabbing acid water & gas @ rate of about 400 MCFPD. Set BP @ 7157'. Perf'd 7126-33' w/1 JSPF. Spotted 500 gals. mud acid at 7133'. Set pkr @ 7030'. Pumped acid away. Swabbed back acid water and small amount of gas, TSTM. Re-acidized perfs 7126-33' w/2,000 gals. acid and now swabbing back and getting twice as much gas as before, estimated 400 to 500 MCFPD and looks as if it might still be improving slightly.
 - 9-3-65: T.D. 7500'. PBTD, 7157'. Shut in for 6-hour period. First hour built up to 675# surface pressure; in six hours, 1750#. Continued to flow at estimated rate of 500 MCFPD. Reacidized with 10,000 gals. retarded acid. Shut in for six hours. Started swabbingback acid water.
 - 9-4-65: T.D. 7500'. PBTD, 7157'. Swabbed back acid water. Well kicked off and flowed 924 MCFPD. 1-hr. SIP, 975#.
 - 9-5-65: Flowing well to clean up.
 - 9-7-45: 18 hr. SIP 2250#. Flowed on 22/64" choke for one hr. FTP 500#. Est. vol. 1.5 MMCF.
 - 9-8-65: T.D. 7500'. PBTD, 7157'. Prep to reacidize perfs 7126-33'.

 4:30 p.m.: Treated with 18,000 gals. of 15% retarded acid plus 8,000 gals. 2% acid overflush. Average injection rate of 5 bbls per min. Maximum treating pressure, 3900#. Initial shutdown pressure, 3000#. Shut-in. Will commence swabbing at 5:30-tonight.
 - 9-9-65: T.D. 7500. PBTD, 7157. Opened well at 5:30 p.m. Acid water flowed back and well kicked off. Now flowing gas and acid water. Well still cleaning up.
 - 9-10-65: T.D. 7500'. PBTD, 7157'. Testing. Well still cleaning up. Flowing gas and acid water through 3/4" choke at 75#.
 - 9-13-65: T.D. 7500'. PBTD, 7157'. Same as above, but possibly a little less water. Samples have been taken, one last night and one this morning, to Western Co.
 - 9-14-65: TD 7500'. PBTD, 7157'. Flowing gas and small amt. of water thru 3/4" choke at 80#. Flowed well on various choke sizes: 22/64" choke, 320#; 10/64" choke, 575#; 20/64" choke, 500#. Shut in pressure after one hour, 955#.
 - 9-15-65: TD, 7500'. PBTD, 7157'. Flowing back acid water and distillate. Estimated 75% acid water and 25% distillate.
 - 9-16-65: TD, 7500. Pbtd, 7157. Shut in. Waiting on potential. 18 hr. shut-in pressure, 2050#. Yesterday well flowing on 3/4" choke at 100#.
 - 9-17-65: TD, 7500. PBTD, 7157. Shut in.
 - 9-18-65 through 9-22-65: Shut in. Awaiting potential.
 - 9-23-65: Flowing on potential test.

P4/6

- 9-24-65: Shut in. 72-hr. shut in pressure, 2525#. Presently flowing on potential on 3/4" choke at 200#. Estimated 3,000,00 cubic feet per day.
- 9-27-65: Initial Potential: Flowed 2 million CFGPD thru 3/4" choke. Flowing tbg press, 130#. 4-Pt. test will be filed later when pipeline connection is made.

Completed 9-24-65. FINAL REPORT.

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS-

Revised 12-1-55

Poc	ol <u>Indian</u>	Basin		F'C	rmation	0180	30		_County_	Edd	У
	tial <u>x</u>										•
Com	npany <u>Robe</u>	rt N. E	nfield	·	· · · · · · · · · · · · · · · · · · ·	Lease	Bunnel F	ederal	Wel	.1 No	I
Uni	t P	SecI	8 Twp.	2I s	RgRg	e. <u>23</u> e	Purc	haser	None		
	ing 4 1/2	/ • ·	,							То	7133
	ing 2 3/8	•		٠.							• ••
		•		•							ess. <u>13.2</u>
	ducing Thru										
Dat	e of Comple	tion:	9-24-6	5	Packe	r <u>703(</u>	Sin _l	gle-Brade Reservo	nhead-G. ir Temp	G. or (3.0. Dual o _F
						OBSERV	ED DATA				
Tes	ted Through	(JOCOCO	er) (sou	oce)	(Meter)				Туре Тар	s <u>F]</u>	ange
			Low Data				Tubing		Casing D		
No.	(Prover) (Line)	(Chol	(e) Pi	ress.	Diff.	Temp.	Press. DWT	Temp.	Press.	Temp.	of Flow
	Size	Siz	ze j	sig	h _w	°F.		°F.	psig	⊃r.	Hr.
SI			i				2324	,			72.0
1.	411		I.50 '		I	100	1976	60			3.0
2.	711 711	17/64	I.50 8	790	$\frac{2}{6}$	100 99	I865	60	<u>.</u>	<u> </u>	3.0
+•	<u> </u>		I.50 8		20	98	I542 I465	60 62		-	4.0 6.0
5.				-			****	- Va			
No.	Coeffici	ľ		Pre			CULATIONS Temp.		Compres Factor	ss.	Rate of Flow Q-MCFPD
	(24-Hou	ır)	<u>' </u>					Fg	Fpv		@ 15.025 psia
L.	<u>13.99</u>		28.164		93.2	9636		.9837	I:05		393.27
2 . 3.	<u></u>		40:074		03.2	9636		9837	I.05		560.65
+•	13.99 13.99		69.838		13.2 13.2	9645 9653		.9837 .9837	I.05		980.76 1792.40
5.			2/.520	1-0	13.4	3033		701/		°	1792.40
											<u> </u>
ravi	Liquid Hydro ity of Liqui 9.936				•	cf/bbl.		Special Special			rator Gas <u>.6200</u> ing Fluid .62.5
ravi	ty of Liqui 9.936		carbons		Gas	cf/bbl. deg.	_{CQ}) ²	Special Special	fic Gravit	PC 51	ing Fluid
lo.	Pt (psia)	d Hydro Pt 3956.9	F _c Q	-s)	.262 (F _c Q) ²	cf/bbl. deg. (F. (1. 4.)	c ^Q) ² -e ^{-s})	Special Special P _c 23	Fic Gravit 37.2 P _C -P _W	PC 51	ing Fluid
lo.	Pt (psia) 1989.2 1878.2	P _t 3956.9 3527.6	F _c Q 3.908	-s)	Gas 262 (F _c Q) ² 15.27 31.04	cf/bbldeg(F	c ^{Q)²} -e ^{-s}) OO 3 I3 3	Special Special P _c 23	Fic Gravit 37.2 P _c -P _w 1501.6 1926.8	PC 51	ing Fluid
lo.	Pt (psia) 1989.2 1878.2 1555.2	P ² 3956.9 3527.6 2418.6	F _c Q 3.908 5.571 9.745	-s)	Gas .262 (F _c Q) ² 15.27 31.04 94.97	cf/bbl. deg. (F. (1.	cQ) ² -e ^{-s}) 00 3 13 3 88 2	Special Special P _c 23 P _w 2 8960.9 8535.7	P _c -P _w 1501.6 1926.8 3019.0	PC 51	ing Fluid
io.	Pt (psia) 1989.2 1878.2	P _t 3956.9 3527.6	F _c Q 3.908	-s)	Gas 262 (F _c Q) ² 15.27 31.04	cf/bbldeg(F	cQ) ² -e ^{-s}) 00 3 13 3 88 2	Special Special P _c 23	Fic Gravit 37.2 P _c -P _w 1501.6 1926.8	PC 51	ing Fluid
lo.	Pt (psia) 1989.2 1878.2 1555.2 1478.2 Plute Potent	Pt 3956.9 3527.6 2418.6 2185.1 ial:	F _c Q 3.908 5.571 9.745 17.809	-s)	Gas 262 (F _c Q) ² 15.27 31.04 94.97 317.16	cf/bbldeg. (F. (1)	cQ) ² -e-s) 00 3 13 3 88 2 10 2	Special Special P _c 23 P _w 2 8960.9 8535.7 P _{2443.5} P _{2268.2}	P _c -P _w 1501.6 1926.8 3019.0	PC 51	ing Fluid
lo.	Pt (psia) 1989.2 1878.2 1555.2 1478.2 Dute Potent PANY ESS FIT and TITLE	Pt 3956.9 3527.6 2418.6 2185.1 cial: Cobert N COLEM	F _c Q 3.908 5.571 9.745 17.809 2060 1. Enfie	-s)	Gas 262 (F _c Q) ² 15.27 31.04 94.97 317.16	cf/bbl. deg. (F. (1) 4. 8. 24. 83., MCFPD;	cQ) ² -e-s) 00 3 13 3 88 2 10 2	Special Special P _c 23 P _w 2 8960.9 8535.7 P _{2443.5} P _{2268.2}	P _c -P _w 1501.6 1926.8 3019.0	Ca PC 54	ing Fluid
lo.	Pt (psia) 1989.2 1878.2 1555.2 1478.2 Dute Potent PANY ESS FIT and TITLE	Pt 3956.9 3527.6 2418.6 2185.1 ial: Cobert N COLEM Lee H	F _c Q 3.908 5.571 9.745 17.809 2060 1. Enfie	-s)	Gas 262 (F _c Q) ² 15.27 31.04 94.97 317.16	cf/bbl. deg. (F. (1. 8 24. 83. MCFPD; EW Mexic	cQ) ² -e-s) 00 3 13 3 88 2 10 2 n	Special Special P _c 23 P _w 2 8960.9 8535.7 P _{2443.5} P _{2268.2}	P _c -P _w 1501.6 1926.8 3019.0 3194.3	Ca PC 54	ing Fluid
No.	Pt (psia) 1989.2 1878.2 1555.2 1478.2 Plute Potent PANY ESS	Pt 3956.9 3527.6 2418.6 2185.1 ial: Cobert N COLEM Lee H	F _c Q 3.908 5.571 9.745 17.809 2060 L. Enfie	-s)	Gas 262 (F _c Q) ² 15.27 31.04 94.97 317.16	cf/bbl. deg. (F. (1. 8 24. 83. MCFPD; EW Mexic	cQ) ² -e-s) 00 3 13 3 88 2 10 2	Special Special P _c 23 P _w 2 8960.9 8535.7 P _{2443.5} P _{2268.2}	P _c -P _w 1501.6 1926.8 3019.0 3194.3	Ca PC 54	ing Fluid

STATE DF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	OIL CONSERVATION DIVISION P. D. BOX 2088 SANTA FE, NEW MEXICO 87501	GAS WELL SHUT-IN PRESSURE REPORT 1983 YEAR / FORM C-125 *** EDDY COUNTY ***	E REPORT-125
ROBERT N. ENFIELD ROBERT N. ENFIELD ROBERT N. ENFIELD ROBERT R	######################################	SANTA FE	87501
J L / L E A S E	WELL S AT I O N DATE PRESS	SI-PRESS SI-PRE PSIGIUMIIPSI	EPIC FINE S
INDIAN BASIN UPPER PENN. (PRO GAS)			
BUNNEL FEDERAL GAS COM	1J 18 21S 23E UP 9-16-83 - 24	1370	-82
. WEST INDIAN BASIN UNIT	IN 17 21S 23E UP 9-16-83 24	1432 1445.2 9-22-82	-82
PEST INDIAN BASIN UNIT GAS COM	2G 20 21S 23E UP 9-16-8324		-82
LAKE MORROW, EAST (GAS)			
FEDERAL 18	14 18 195 27E PM 8-3-83 24	1625 1638.2	
I HEREBY CERTIFY THAT THE ABOVE INFORMATION SEE RULE 402.	IS TRU	E AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.	EF.
SIGNATURE JOHN TO SEASON	TITLE Omer	DATE_10.4.83	

Robert N. Enfield
Exhibit 5
Indian Basin Field
Eddy County, NM
Case No. 8259
August 3, 1984

סואור חב אבאורר	CIL CCNSERVATICN CIVISICN	GAS WELL SHUT-IN PRESSURE REPCR
NERGY AND MINERALS DEPARTMENT	P. C. BGX 2088	1582 YEAR / FCRM C-125
	SANTA FE, NEM MEXICO 87501	*** EDDY CCUNTY ***
OBERT N. ENFILLS ==================================	SANTA SANTANTANTANTANTANTANTANTANTANTANTANTANTA	SANTA FE NA SECULO SECULO SANTA FE SECULO SANTA FE SECULO
GCL/LEASE	I B C	SI-PRESS SI-PRESS PREVIEST
NDIAN BASIN UPPER PENN. (PRC GAS)		
SUNNEL FEDERAL GAS COM	11 18 215 23E UPSEDIL 24hR 1305 1315	1305 1318
E INDIAN BASIN UNIT #)	IN 17 215 23E UP-SGAT 22m 2 74/18 1450 1455	1450 1463
EST INDIAN BASIN UNIT GAS CCM	26 20 215 23E UPSEPT 22 & 4hs.	1370 1383
HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND SEE RULE 402.		COMPLETE IC THE BEST OF MY KNOWLEDGE AND BELIEF.
SICHATURE (May M. L. L.	7 ITTLE CHLUZE	DATE 10/7/82

Hevised 1-1-65 Rom: C-125

					_	202				
Robert N. Enfield	Box 2431 9	Santa Fe, NM	e, NM	87501	H	Indian Basin Upper Penn	Upper Pen	n Eddy		
H A S F	1 iu		LOCATION	NOIF		DATE PRESS.	- u		1	
		LNI	SEC.	TWP.	RGE.	RUN	HRS./MIN.	PSIG (DWT)	S.I. PRESSURE PSIA	PREV. LEST DATE
Bunnel Fed. Gas Com.		'n	18	21	23	8/27/81	24	1433	1504.3	9/19/80
West Indian Basin Ut.	H	Z	17	21	23	8/27/81	24	1491	1446.3	9/19/80
W. Indian Basin Ut. Gas Com.	2	G	20	21	23	8/27/81	24	1490	1503.3	9/19/80
							•			

Title Operator

_ Date ___9/3/81

O'BRIANT ENGINEERING
316 BUILDING OF THE SOUTHWEST
MIDLAND, TEXAS 79701

915 - 683-3172 915 - 683-5511

March 8, 1979

Mr. Robert N. Enfield P. O. Box 2431 Santa Fe, New Mexico 87501

RE: Gas Well Reserve Estimates

Eddy & Chaves Counties, New Mexico

Dear Mr. Enfield:

A tabulation is attached listing ultimate gas and condensate reserves. Also shown are remaining reserves as of January 1, 1977 and January 1, 1978. These results were calculated from the data contained in your letter of February 23, 1979.

A summary description of the methods used to calculate ultimate reserves follows:

- (A) Gas: Pressure versus production graphical solution.
- (B) Condensate: Constant gas to liquid ratio (used 1977 production).

The remaining reserves maybe considered at a base pressure of 14.73 psia.

Yours very truly,

James F. O'Briant

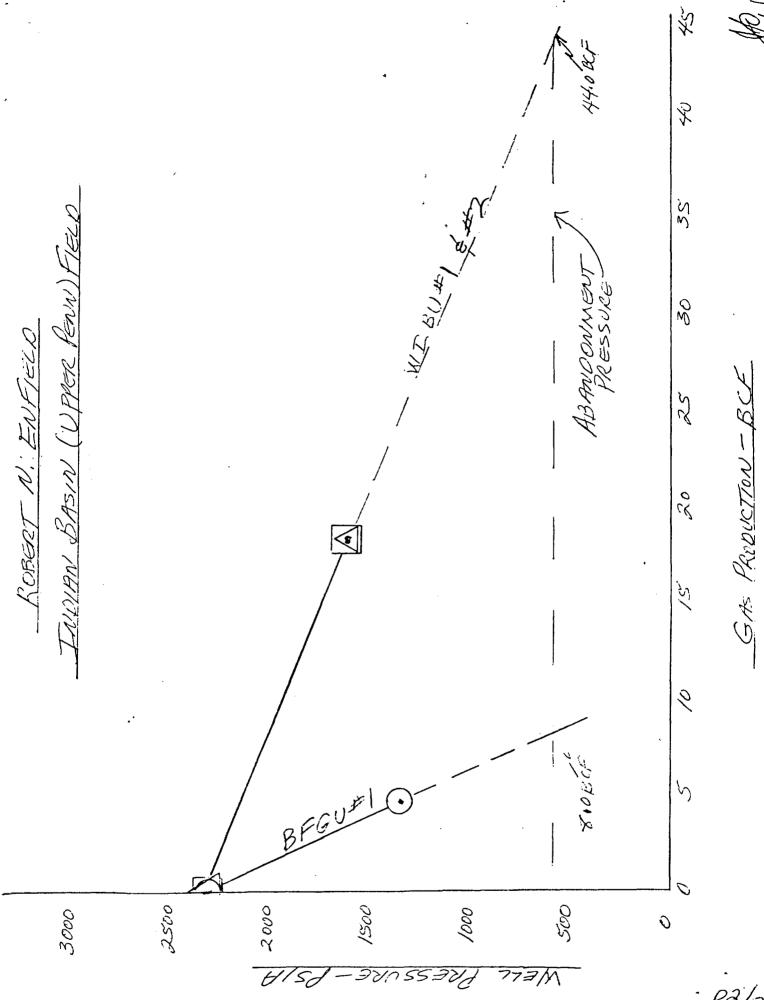
Registered Professional Engineer

JFO:par Attachments

- (1) Tabulation of ultimate and remaining reserves.
- (2) Pressure versus production graphs.

Robert N. Enfield Exhibit 6 Indian Basin Field Eddy County, NM Case No. 8259 August 3, 1984

PI/3



P2/3