by DUGAN PRODUCTION CORP. for

Big Eight #1 Well San Juan County, New Mexico

CASE NO. 6147

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Township 24 North, Range 9 West, NMPM

Big Eight #1 Well 2-8-24N-960

Offsetting Leases and Operators

A. USA NM 25540

Dugan Production Corp.

B. USA NM 25433

Dugan Production Corp.

C. USA NM 25441
Texaco Inc.

D. Unleased Federal Acreage
U. S. Geological Survey

E. USA NM 25432 Texaco Inc.

F. State of NM E-6644-12

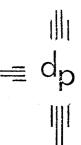
Amoco Production Co.

G. USA NM 10089

Dugan Production Corp.

Well Location

l-Northwest Pipeline l-File



# dugan production corp.

Dugan Production Corp.
Big 8 #1
1530' FSL - 840' FWL
Sec 8, T24N, R9W
San Juan County, New Mexico
Elevation - 6771' GR

#### MORNING REPORT

1-19-76	Moved in L & B Speed Drill and spudded 12-1/4" hole, drilled to 90'.
1-20-76	Finished drilling 12-1/4" hole to 190' GR. Ran 6 jts 8-5/8" OD 24# 8R ST&C csg, TE 188' set @ 199' RKB, cemented by Woodco w/115 sx Class "B" w/2% CaCl. POB 3:30 PM 2-19-76.
	WAITING ON ROTARY TOOLS
3-7-76	Moved in and rigged up Young Drilling Company. Drilled to 15something feet (report by Herman Walters).
3-8-76	Trip for Bit #3 @ 2633'. WT 9.0 VIS 36 WL 7.0
3-9-76	Drilling @ 3322' w/Bit #5 WT 8.9+ VIS 36 WL 6.0 PH 9.5
3-10-76	Trip @ 3833' for Bit #6 WT 9.0+ VIS 40 WL 6.0 PH 9.5
3-11-76	Drilling @ 4370' w/Bit #8 WT 9.1 VIS 37 WL 7.0 DEV 1-3/4° @ 4274'
3-12-76	Trip @ 4775' for Bit #8. WT 9.2 VIS 34 WL 8 PH 9.5 DEV 1-3/4 <sup>C</sup> @ 4719'
3-13-76	Trip @ 5075 for Bit #10 WT 9.1 VIS 37 WL 6.0 PH 9.5
3-14-76	Drilling @ 5412' w/Bit #11 WT 9.2 VIS 38 WL 6.6 PH 9.0 DEV 1-1/2 <sup>C</sup> @ 5393'
3-15-76	Drilling @ 5745' w/Bit #12 WT 9.2 VIS 38 WL 5.6 PH 8.8 DEV 2-1/4 @ 5680'
3-16-76	Drilling @ 6170' w/Bit #13 WT 9.2 VIS 38 WL 5.2 PH 8.5 DEV 2 <sup>O</sup> @ 6084'

709 BLOOMFIELD RD. . P. O. BOX 234 . FARMINGT

APPLICATION FOR DOWNHOLE COMMINGLING

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#### MORNING REPORT (Cont'd)

3-17-76 Drilling @ 6372'

> WT 9.2 VIS 38 WL 5.4 PH 9

TD 6392'. Conditioned hole, made short trip, attempted to run 3-18-76 logs, hit bridge @ 265'. Made short trip - 30 stands, circulated hole, attempted to log, hit bridge @ 310'. Ran 6 stands, drilled out bridges. Go International ran IES and density-gamma ray logs.

3-19-76 TD 6392'. Laid down drill pipe. Ran 204 jts 4-1/2" OD 10.5# K-55 8R ST&C CF&I csg set @ 6392'. Had trouble breaking circulation. Cemented first stage w/300 sx 4% gel (456 cu ft) 1/4# cello-flake/sk, good mud returns while cementing. Max cementing press 600 psi, worked csg while cementing. POB 10:30 PM 3-18-76. Opened Baker stage tool @ 4430', circulated hole 4 hrs thru stage tool. Cemented second stage w/525 sx 65-35 plus 12% gel plus 1/2# cello-flake/sk (slurry volume 1328 cu ft). Good mud returns while cementing. Max cementing press 1000 psi. POB 3:15 AM 3-18-76. Had approx one bbl cement to surface. Released rig.

WAITING ON COMPLETION RIG

#### DAILY REPORT

4-16-76 Moved in Farmington Well Service Rig #6. Set csg pack off, welder trimmed and bevelled csg, installed tbg head and BOP. Went in hole with 3-7/8" bit on 2-3/8" OD tbg. Tagged stage collar @ 4430'.

4-17-76 Drilled stage collar, cleaned out 18' cement above float collar, cleaned out to 6375', circulated hole clean.

4-18-76 Shut down - Easter Sunday.

4-19-76 Western Company pressure tested csg and BOP to 4000 psi - held OK. Circulated hole. Spotted 300 gal 15% HCl. Pulled tbg. Go International ran gamma-ray correlation log, hit btm @ 6362'. Ran perf gun, unable to spud past 6362'. Ran bond log. Went in hole with 2-3/8" tbg, circulated out 13' of frac sand.

PBTD 6375'. Pressure tested csg and BOP to 4000 psi - held OK. Spotted 300 gal 15% HCl. Pulled tbg, went in hole w/perf gun, tagged up @ 6370'. Perforated one jet/ft 6353-69'. Broke down perf, pumped 100 bbls wtr, IR 32 B/M @ 3600 psi, ISDP 1800 psi. Perforated one jet/ft 6255-69' and 6278-90'. Western Company frac Dakota fm using 1628 bbls wtr, 58,700 lbs 20-40 sd, 2979 hp,  $2\frac{1}{2}$ # FR-2/1000 gal wtr, shut down after 50 bbls pad ISDP 1400 psi, IF 3000 psi, Max 3800 psi, Avg 3260 psi, Min 2900 psi, Final 3700 psi, Avg IR 37.4 B/M, ISDP 2200 psi. Made 2 ball drops of 15 balls each: first drop 200 psi increase; second drop w/300 gal 15% HCl 100 psi press increase. Shut well in 8 hrs. Opened well to pit overnight.

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4-20-76

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#### DAILY REPORT (Cont'd)

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- Well flowing by head w/small amount of flammable gas, wtr slightly 4-21-76 salty. Went in hole w/tbg, had 5' sand fill. Swabbed well 8 hrs, swabbing est 80 bbls wtr/hr. Wtr gas cut. Csg press 100 psi, fluid level 500'. Left tbg open overnight.
- 4-22-76 SI csg press 500 psi. Well had not flowed thru tbg overnight. Fluid level 500'. Made 2 swab runs. Checked sand fill-up, had 12' of sand in well bore. Circulated sand out of hole. Pulled tbg. Ran Baker Model "R" packer set @ 6330'. Swabbed perfs 6353-69' thru tbg, swabbed 5 hrs, well making enough gas to blow wtr off swab but will not flow. Left tbg open overnight.
- Well kicked off during night, flowing by heads, show of oil, est 4-23-76 500 MCFGPD (oil golden color). Moved packer up hole, set @ 6230'. All Dakota perfs open below packer. Swabbed well, well kicked off making est 1000 MCFGPD w/heavy spray of wtr. Left well open overnight.
- 4-24-76 Well flowing est 1500 MCF w/heavy spray of oil and wtr (oil from all zones dark green color). Killed well, pulled tbg and packer, set Baker Model "D" packer on wire line @ 6200'. Perforated one jet/ft 6125-40' and 6154-66'. Ran Baker Model "R" packer on 2-3/8" OD tbg set @ 6077'. Swabbed tbg dry, no fluid entry, filled back side of tbg, pressured to 500 psi. Acidized Greenhorn fm using 1000 gal 15% HCl. Dropped 25 balls in acid. IF 3725 psi, Max 3725 psi, broke from 3600-3325' when acid hit, Avg 3300 psi, Final 3500 psi, Avg IR 2.2 B/M, Max IR 2.8 B/M. Small press increase when balls hit. ISDP 3000 psi, 5-Min SI 2975 psi. Swabbed well, recovered approx 1/4 of acid, well making est 50 MCF w/some light oil. Shut well in.
- 4-25-76 Sunday - did not work
- Shut-in tbg press 200 psi. Swabbed well, had 1500' of oil, no wtr. 4-26-76 Second run recovered 200' of oil, no wtr. Well making est 50 MCF. Loaded 2-3/8" tbg w/wtr, pulled Baker Model "R" packer. Ran 5 jts 1-1/4" OD 2.3# J-55 10R IJ tbg below seal assy and Baker Model "F" nipple above seal assy. 196 jts 2-3/8" OD 4.7# J-55 8R EUE tog plus one 4' tbg sub placed first under donut. TE 6353.86' set @ 6365' RKB. Tbg stung into Baker Model "D" packer @ 6200'. Kicked well off with three swab runs. Well flowing to pit making est 1800 MCF w/heavy spray of wtr and oil. Let well flow to pit over night.
- After flowing to pit 16 hrs well making est 1200 MCF w/heavy spray 4-27-76 of oil and wtr, some slugs of wtr. Shut well in.
- Blew well one hr, unloaded slug of oil and wtr, flowing strong and 4-28-76 steady after one hr. Shut well in for test.

SHUT-IN FOR INITIAL POTENTIAL TEST

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## DAILY REPORT (Cont'd)

5-14-76

Opened well to atmosphere, did not unload after 5 hrs. Rigged up Farmington Well Service swabbing unit. Made 2 swab runs to 2500' and well kicked off. Left flowing to pit (fluid level @ 400' below surface on first swab run).

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### 1976 PRODUCTION

Bisti Lower Gallup Pool Wells

Well Location

Gas Production

Oil Production

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# 1976 PRODUCTION

Undesignated Greenhorn Pool Wells

Well Location

- Gas Production

- Oil Production

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# 1976 PRODUCTION

Basin Dakota Pool Wells

Well Location

- Gas Production

- Oil Production

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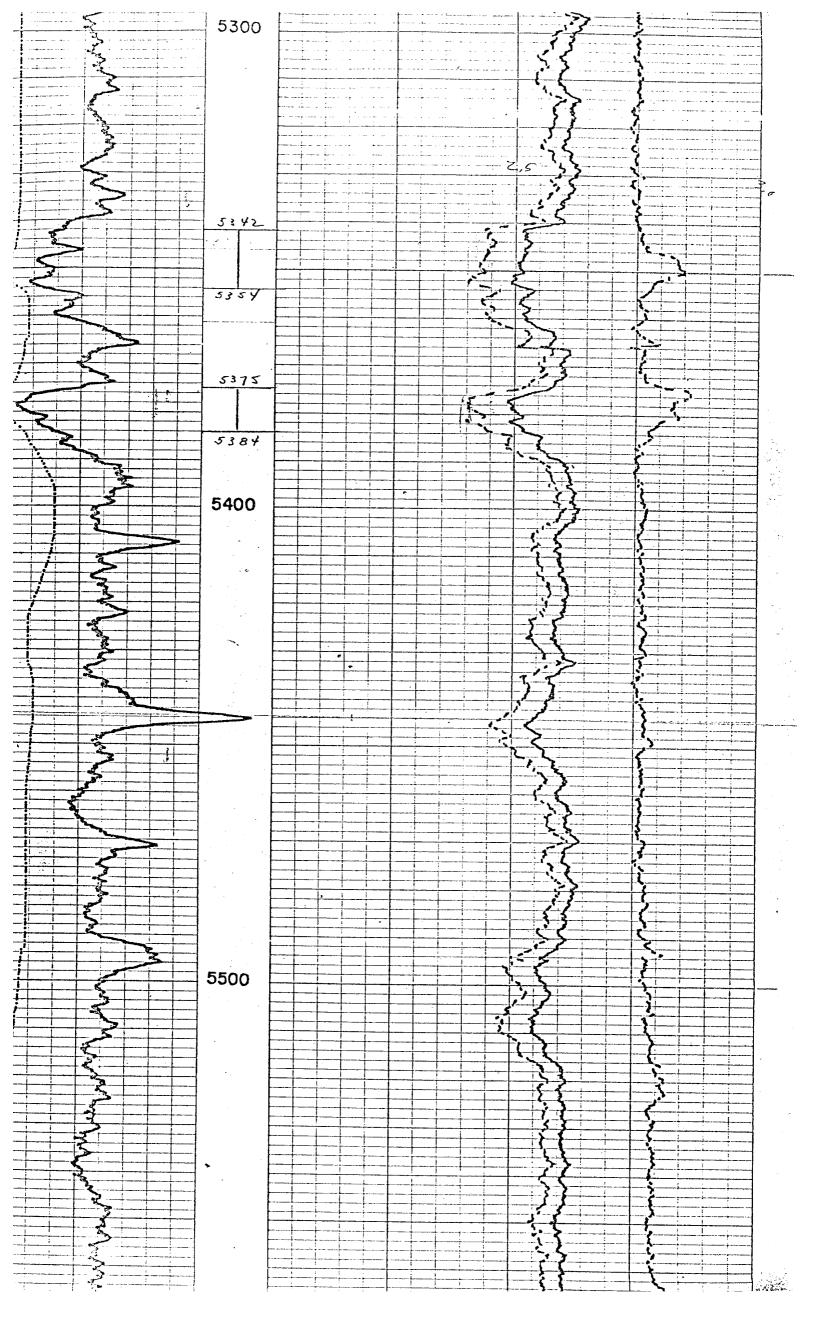
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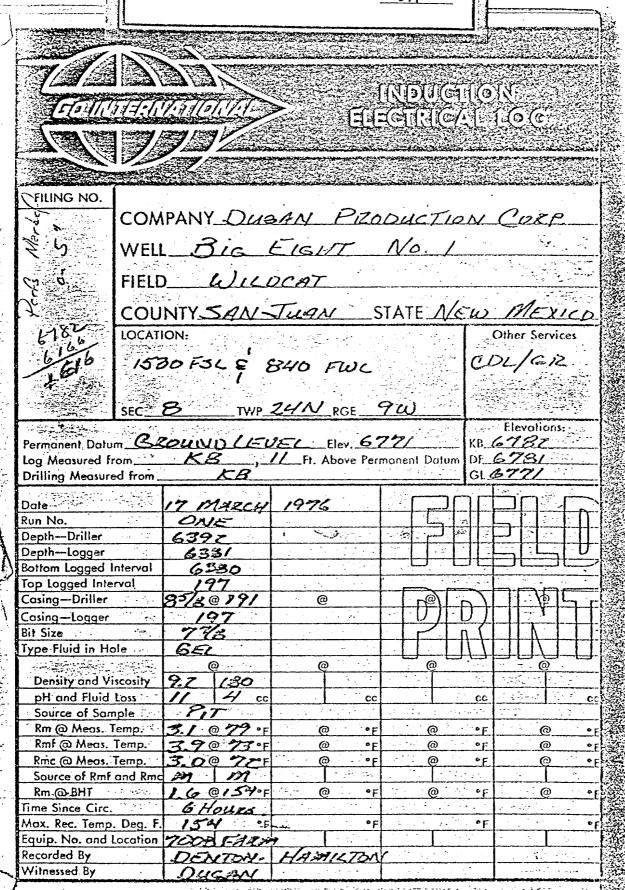


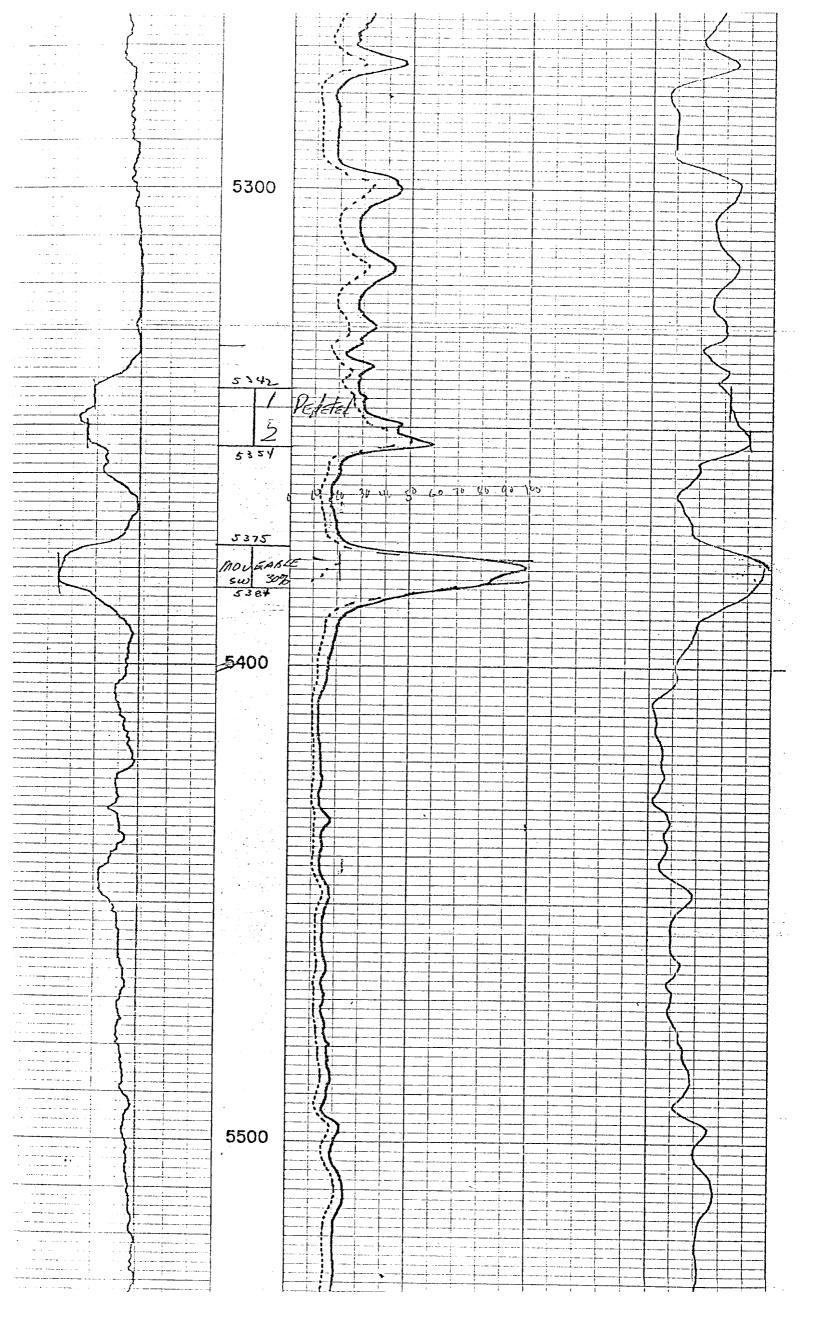
by DUGAN PRODUCTION CORP. for

Big Eight #1 Well San Juan County, New Mexico

CASE NO. 6147

EXHIBIT NO. 6A



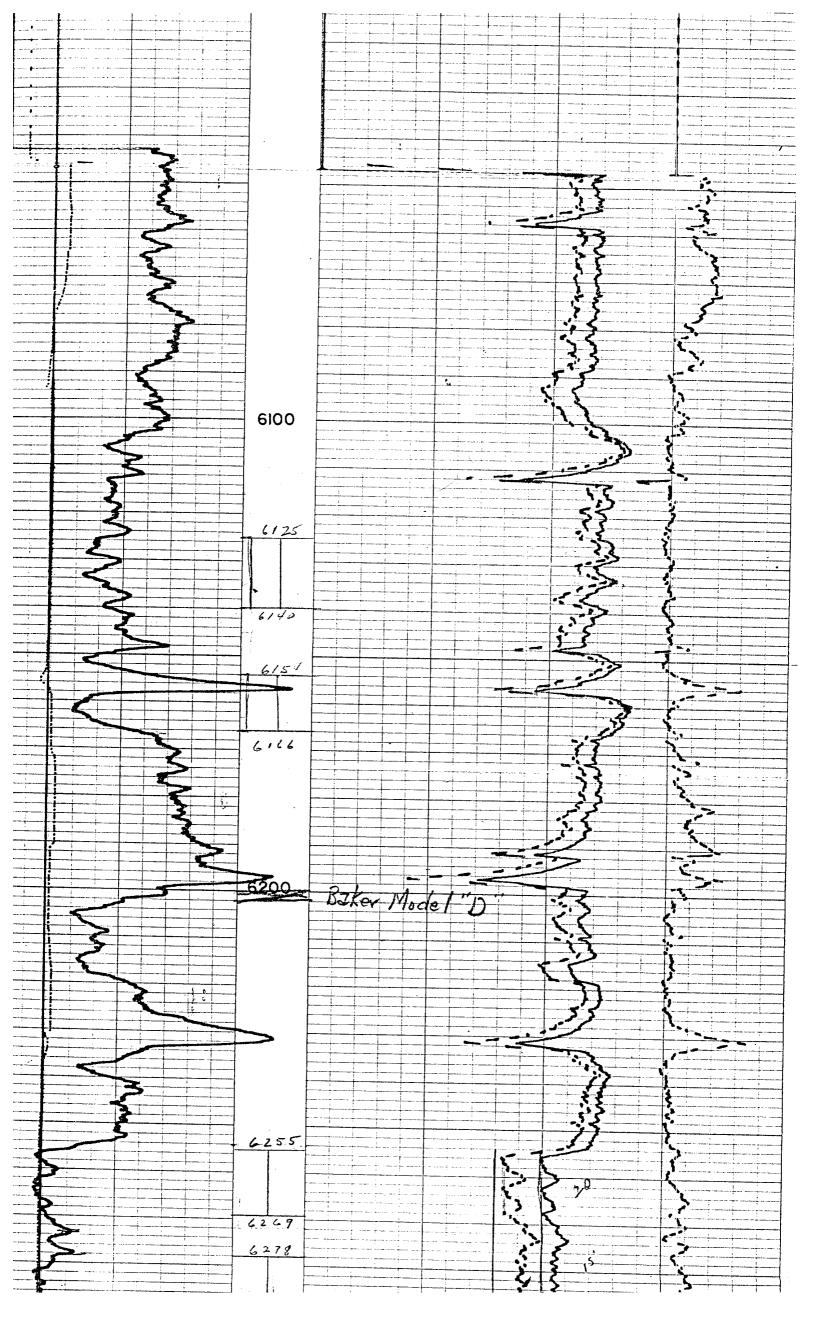


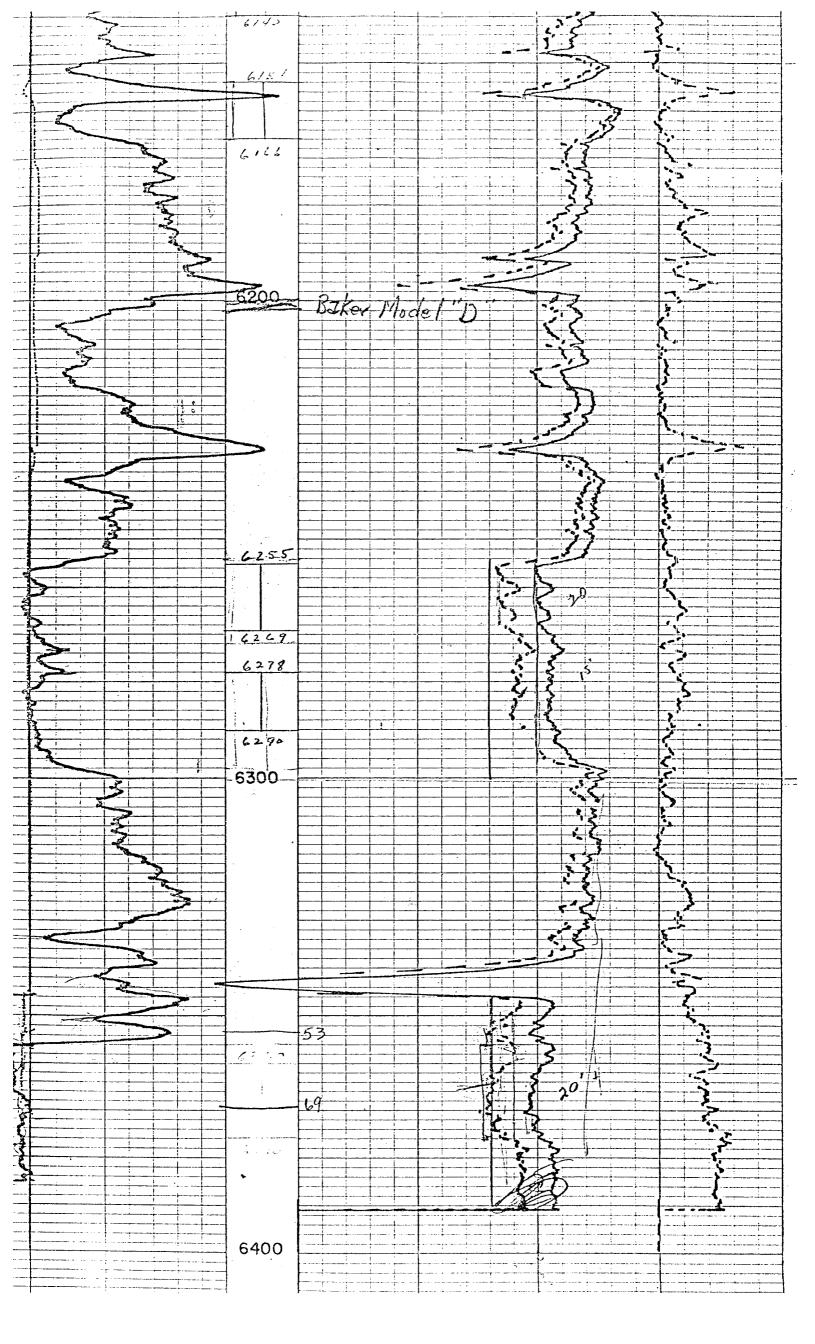
by DUGAN PRODUCTION CORP. for

Big Eight #1 Well San Juan County, New Mexico

CASE NO. 6147

					AFENEY ELLY		
FILING NO.							
	COMPA	ANY Du	CBNI	Piza	DUCTION	1 Care	
	COMPANY DUGAN PRODUCTION CORP						
<b>b</b>	WELL	BIC E	_ -/G//	7	Vo.		
	100						
61 0	LIELD_	WILDE		·			
	COUN	TY SANJ	TUAN	ST/	ATE NEW	MEXICO	
	Location:					Other Services:	
1 / 2	1530	FSL & E	340 F	WL	16	7	
	Sec	8TwpZ	411	Rge. 96	W		
Permanent Datum:	CROUN	112 / FIET		Elev. 62	Elev.	K.B.678Z	
Log Measured From Drilling Measured						D.F. 6731	
Drilling Measured	From	<u> </u>				G.L. <u>677/</u>	
Date		18 MAZCH	1 199	5			
Run No.		ONE					
Type Log		GAMMA-	SAMO	MA	1-2111		
Depth-Driller	•	6372			<del>-    </del>	<u> </u>	
Depth-Logger		84179			<u> </u>	/	
Bottom logged into		6-173	30	<del></del>			
Top logged intervention Type fluid in hole		000	党	· · · · · · · · · · · · · · · · · · ·	<del>  n     h  </del>	┼┼┼┼┼┼┞┱╌╒╣	
Salinity, PPM C		BEL 3.1-Q:M	173		$F^{U}\mathcal{J}F^{J}$	<del>╎</del> ┼┼┰╩┼┼┼┼┦	
Density	77,999	3.1 <u>3.14</u> @	2 (4)		1 F 1 h 1	┼┼┼	
Level		FALL					
Max rec. temp., d	eq F.	156			7743	per en integral	
Operating rig time		4 Hours			N CALE CO.		
Recorded by		DENTON	1- 1/3	AMILT	ON		
Witnessed by		DUGAN					
		<u> </u>					
Run	Bore-Hole R		ļ		Casing Record	<del></del>	
No. Bit	From	To	Size	Wgt.	From	То	
77/3	191	6392	85%	24	SUZF	191	
	2	<del>- </del>		gr. s			
	<del></del>				-		
}		<del> </del>					
		1	1			1	



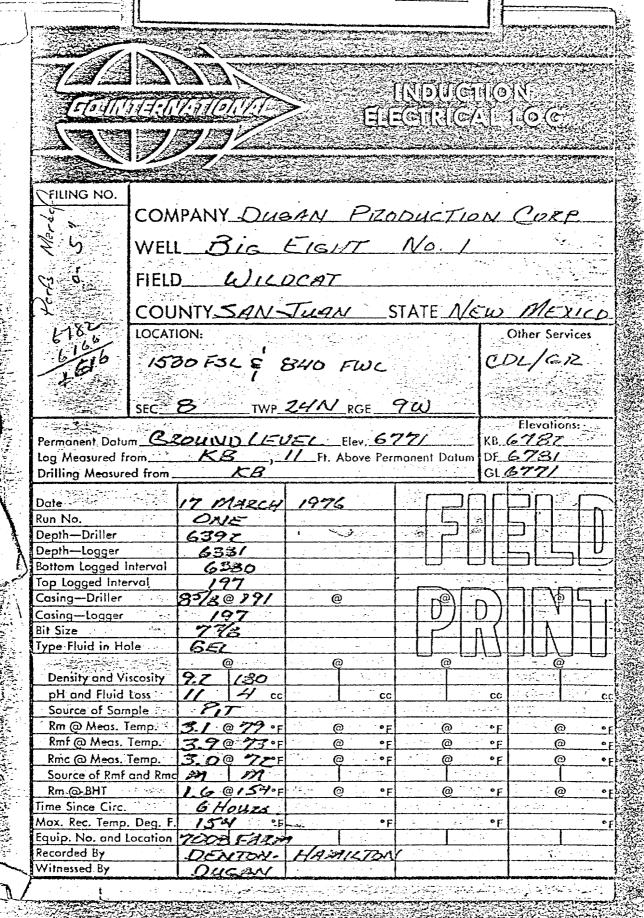


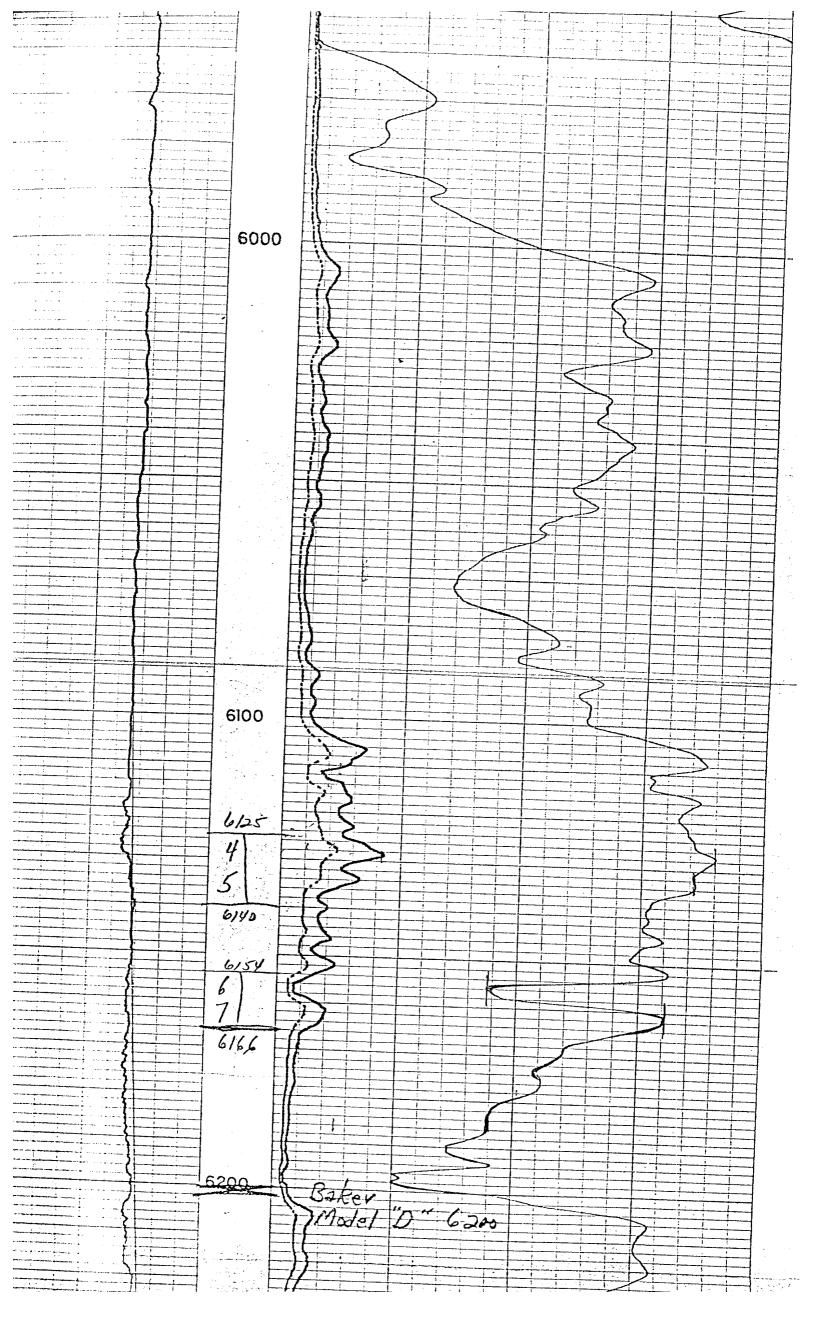
by DUGAN PRODUCTION CORP. for

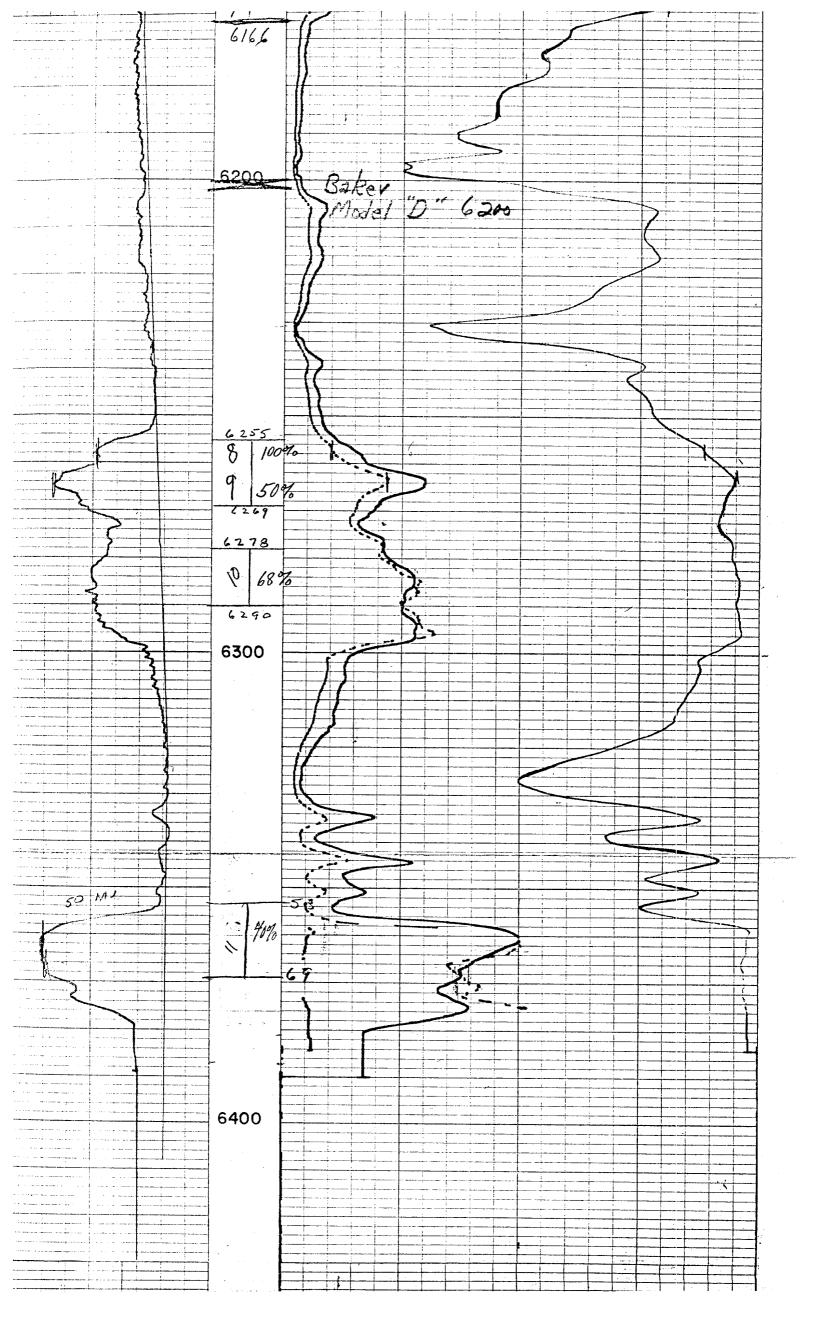
Big Eight #1 Well San Juan County, New Mexico

CASE NO. 6147

EXHIBIT NO. 7A







DIAGRAMATIC SKETCH OF
OIL AND GAS COMPLETION
Big Eight #1 Well

8-5/8" OD Casing @ 199' Cemented to surface w/115 sx

Baker Stage Tool @4430'
Cemented: First stage 300 sx
Second stage 525 sx

Greenhorn Perfs 6125' 6166'

Dakota Perfs 6252'

6369'

Baker Model "D" Packer @ 6200'

2-3/8" Tbg @ 6365' 6375 PBTD 4-1/2" Csg @ 6392' TD 6392'

APPLICATION FOR DOWNHOLE COMMINGLING

by DUGAN PRODUCTION CORP. for

Big Eight #1 Well San Juan County, New Mexico

CASE NO. 6147