UNITED STATES

FOR APPROVED

DEPARTMENT	OF THE	INTERI	Ø R
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OMB NO. 1004-0137

	υ	E P A	KIME	NIUF	IHEINIEK	LOK /	structions on		cpires: Decem		
		n II	PFAU O	FIAND	MANAGEMEA	ST OF WES	reverse side)	5. LEASE DESIGN	NATION AND -078481.		
			KEAU U	PERM	MANAGEME	RIM		6. IF INDIAN, AL	*	· ·	
WELL (COMP	LETI	ON OR	RECOM	PLETION REI	PORT AND	LOG *				
la. TYPE OF WE	LL:		OIL WELL	GAS WELL	x DRY 99 JU	Loui2 Pi 4:	25	7. UNIT AGREEN	ENT NAME		
b. TYPE OF CON	APLETION :	_		 , ,		a page processors					
NEW WELL X		WORK OVER	DEEP-	PLUG BACK	DIFF. 070 F.	ABAUNGTON,	NM-	8. FARM OR LE.	ASE NAME, V	VELL NO.	
2. NAME OF OP			•	/ WM D :=	L				-h #0	o	
M&G Drill 3. ADDRESS AN	Ing Co	mpany ONE NO.	, Inc. c	/o KM Proc	duction Company		> =====================================	Q API WELL NO	aham #9		
P.O. Box	2406	Farmin		87499-2			是人		045-299		
4. LOCATION OF At surface	WELL	(Report	location cleari	ly and in accor	dance with any State re-	HIII	\	וטו	OOL, OR WI	LDCAT	
1305 FNL	& 990	FEL		:	a e C	որ Մ	ILX- 8 1:	و Basin ا	Fruitland	Coal	
At top prod.			below	ard 11	2111	<u> </u>		11 CCC T D	M OD DIOC	T AND CIDARY	
			inlE!	CEIN	" " " " " " " " " " " " " " " " " " " "	@ !!! \	SOMP -	Sec. 1	1 T27N I	2 RW	
At total dept	h			19		' [Dim./3	1	7, 12/14 1		
			17.77	Jor .	14. PERMIT NO.	DATE ISS	UED	12. COUNTY OR PARISH	·	13. STATE	
				. coll	MPL (Ready to prod.)			San Juan	· 	New Mexico	
15. DATE SPUDDI	ED 16.	DATE T. I	D. REACHAD	TO STANGE OF LI	MPb (Ready to prod.)	18. ELEVATIONS (FE, ETC.) •	19. ELEV.	CASINGHEAD	
6/15/1999 20. TOTAL DEPTH		0/22/	1999	CK T.D., MD &	1999	1	390 GR 23. INTERVA	ALS ROTARY	TOOLS	CABLE TOOLS	
					HOW MANY		DRILLE	D BY		1	
2250		(S) OF 3		212 Ft	TTOM, NAME (MD AND	TVD)*	L	X		5. WAS DIRECTIONAL	
				ion - ioi, bo	rion, mana (na rao	,				SURVEY MADE	
2024 - 2 26. TYPE ELECTR			nd Coal	<u> </u>					77 WAS W	No ELL CORED	
Dual Indu									i	No	
28.	ction	-	Jenoky		CASING RECORD	(Report all strings	set in well)				
CASING SI	ZE / GRAD	Е		LB./FT.	DEPTH SET (MD)	HOLE SIZE	1	MENT, CEMENTING		AMOUNT PULLED	
7" 4 1/2		-	23 #/ 10.5 #		121 Ft 2265 Ft	8 3/4" 6 1/4"	 	t3) Class B W/4% CaCl, Cement Circulated 1 ft3) Class B W/2% Econolite, tailed with			
	·		10.3 #	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	220310	0.77	 	ft3) Class B, Ceme			
 											
29.	T			ER RECORD	SACKS CEMENT •	SCENERAL (AM)	30.		ING RECOR	D PACKER SET (MD)	
SIZE None	10	P (MD)	BOL	IOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZ 2 3			None	
31. PERFORATION 2024 - 2040			size and nur. .34 diamete			32. AC		RACTURE, CEMEN		E, ETC. F MATERIAL USED	
2069 - 2077			.34" diamete			2024 - 21		750 gal 15% HCI			
2081 - 2083	wi	th 5 ~ .	.34° diamete	er holes		45,000 gal 70 quality foam, 110,000 Lbs 20/40 s			, 110,000 Lbs 20/40 sar		
2086 - 2091			.34" diamete					ļ			
2093 - 2111	Wi	th 37	.34" diamete	er holes	· PRODUCTION	<u> </u>		<u> </u>			
33. DATE OF FIRST P	RODUCTIO	N	PRODUCT	TON METHOD	(Flowing, gas lift, pump	ing - size and type o	of pump)	WELL STA	TUS (F	roducing or shut-in)	
7/2/1	999		Flowir	ng				Shut-			
DATE OF TEST		HOURS	TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF	. WATER - B	BL.	GAS - OIL RATIO	
7/2/1999		3	Hrs.	3/4"			No flo	N			
FLOW. TUBING PI	ESS.	CASING	PRESSURE	CALCULATED 24 - HOUR RA		GAS - M		WATER - BBL.	(OIL GRAVITY - API (CORR.)	
0 psi			psi			No fl	ow 🚆				
34. DISPOSITION			ed for fuel, v			· · · · · · · · · · · · · · · · · · ·	pt 35	TEST WITNE			
Shut-in v		on gas	connecti	on , 2	it			Albert	Aranda		
J. Davi OF MITA	/	_	1	11						- PECORD	
36. I hereby cert	tify that	the forego	ing and	he information	on is complete and cor-			able records	CFPTE	D FOR RECORD	
SIGNED	11111	n XV	- ///	w	TITLE Petr	oleum Enginee	r	DATE	7/67	99	
	,		* (Se	e Instructi	ons and Spaces fo	or Additional D	Data on Re	verse Side)	101	1 6 1999	
Title 18 U.S. (C. Sectio	n 1001.	•		any person knowingly				JV.		

NMOCD

M&G DRILLING COMPANY GRAHAM #98 1305 FNL & 990 FEL (NENE) SECTION 4, T27N, R8W

COMPLETION REPORT

6-30-99 Move in and rig up JC Wèll Service completion rig. Nipple up wellhead and BOP. Rigged up Blue Jet Wireline. Ran GR-CLL-CBL (under 500 psi) from 2212 ft RKB PBTD to 1200 ft. Good cement bond throughout completion interval. Pressure tested casing to 3000 psi, held OK. Perforated the Fruitland Coal interval with 3 1/8" casing gun at 2 JSPF as follows:

2024 - 2040 ft	16 ft	33 holes	
2069 – 2077 ft	8 ft	17 holes	
2081 - 2083 ft	2 ft	5 holes	
2086 - 2091 ft	5 ft	11 holes	
2093 - 2111 ft	<u>18 ft</u>	<u>37 holes</u>	
Total	49 ft	103 holes	.34" diameter

Shut down for the night.

Pick up Arrow Completion packer and 2 3/8" tubing. Trip packer and tubing to 2111 7-1-99 ft. Rigged up Dowell. Spot 250 gallons of 7 1/2% HCl acid across perforation interval. Move tubing and packer to 2053 ft and set packer (between upper and lower Fruitland Coal perforation intervals). Broke down the lower Fruitland Coal intervals (2069-2111) down the tubing at 1200 psi. Established an injection rate of 4.2 BPM @ 1200 psi, ISIP of 400 psi (0.62 frac gradient). Broke down the upper Fruitland Coal interval (2024-2040) down the annulus immediately. Established an injection rate of 4.0 BPM @ 700 psi, ISIP of 500 psi (0.68 frac gradient). Moved tubing and packer to 1891 ft and set packer (above both sets of Fruitland Coal perforations). Acidized the entire Fruitland Coal interval with 500 gallons of 7.5% DI weighted HCL acid containing 155 1.1 sg RCN ball sealers down the tubing at 4.0 BPM @ 1000 psi. Saw some ball action and balled off casing to 4000 psi. Tried unsuccessfully to surge balls off perforations. Tripped tubing and packer to PBTD to knock ball sealers off of perforations. Trip tubing and packer out of hole. Fracture stimulated the Fruitland Coal interval with 45,000 gallons of 70 guality foam using 30# linear gelled fluid containing 110,000 lbs of 20-40 mesh Arizona sand as follows:

30 BPM @ 1550 psi
30 BPM @ 1650 psi
30 BPM @ 1650 psi
30 BPM @ 1750 psi
30 BPM @ 1900 psi
30 BPM @ 2000-2200 psi
30 BPM @ 2200 psi

ISIP = 1950 psi decreasing to 1550 psi after 15 minutes. All water contained 2% KCL, $\frac{1}{2}$ gal/1000 clay stabilization agent, and bacteriacide. Sand contained multiple radioactive tracer material as follows: 5 mc Sb-124 in 1 and 2 ppg sand stages, 30 mc Ir-192 in 3 and 4 ppg sand stages, 10 mc Sc-46 in 5 ppg sand stage. Average rate 30 BPM, average pressure 1750 psi, maximum pressure 2250 psi, minimum pressure 1400 psi, average nitrogen rate 10,500 scfm, total nitrogen pumped 427,500 scf, total fluid to recover 385 bbls. Shut well in for 3 hours. Blow well back to pit through a $\frac{1}{4}$ inline choke. Well flowing to cleanup. Shut down for the night.

7-2-99 Well is still flowing to the pit this morning. Killed well. Trip in hole with tubing and tagged sand fill at 2207 ft (96 ft below bottom perforation and 5 ft above PBTD). Moved tubing up hole and landed as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	3.00	0-3
65 jts of 2 3/8" 4.7#/ft J55 EUE		
yellow band used tubing	2074.47	3-2077
1 seating nipple	1.10	2077-2078
1 jt of 2 3/8" used tubing	31.80	2078-2110
	2110.37	

Nipple down BOP and nipple up wellhead. Rigged to swab. Made 2 swab run and well started flowing. Left well flowing to pit to cleanup. Released rig. End of Report.

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