Form 3160-4 (November 1983) (formerly 9-330)

UNITED STATES

SUBMIT IN DUPLICATE.

Form approved. Budget Bureau No. 1004-0137 Expires August 31, 1985

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO. NM - 43757

WELL CO	MPLETION	OR REC	OMPLE	TION	REPORT	SHD.	VLEOG *	6. IF IND	IAN, ALLOI	TTRE OR TRIBE NAM
a. TYPE OF WE	WE	LL X GAS	ı.ı.	DRY	Other		4000	7. UNIT A	GREEMENT	NAME
b. TYPE OF COM	WORK DE	er- 🗀 ru		IFF.		N 23	1986	/		
WELL A	OVER LEN	BA(K L J R	ESVR.	Other				ederal	
	ande Resc	ources,	Inc.		BUREAU O	F LAND TON RES	MANAGEM SOURCE/AR	EN1		
. ADDRESS OF OPE								— Be	arcat	: #1
	iltower E	-	•	-						OR WILDCAT
	80 FSL ar				-					Mancos
	terval reported be	elow			200, 10.1	M.F.F	1.	OR AR		ON BLOCK AND SURVEY
At total depth	same as		e as al	2016				0. 2	2-25N	1-2W, N.M.
			14.	PERMIT NO.		DATE ISS	SUED	12. COUNT	T OR	13. STATE
								Rio A	rriba	·
. DATE SPUDDED	16. DATE T.D. 2		_		o prod.) 18			KB, RT, GR, ETC.)	- 1	LEV. CASINGHEAD
11/07/85		85 G, BACK T.D., M	6/14,		TINE COMP		18' GR			7218'
7907	i	7885 [†]	D & 148	HOW M			DRILLED	BY		CABLE TOOLS
. PRODUCING INTE			-TOP, BOTTO	M, NAME (A	na •(dvr dva dw	'	_ 	surf		. WAS DIRECTIONAL
Sano	stee -	7265'-7	7373 '							SURVEY MADE
Gall	up -	6717'-6	966							yes
TYPE ELECTRIC									27. 17/	AS WELL CORED
	L, FD/CN	l								no
CASING SIZE	WEIGHT, LB./		ASING REG		ort all strings	set in so		ING RECORD		
						265			<u></u>].	AMOUNT PULLED
9 5/8"	36# K-	-55	516		211	1		D 2% CC }		-0-
5½"	17# J-	-55 7	889'		8 5/8"			chment -	<u> </u>	
	-			- `			or arra			
		LINER RECO	RD			30).	TUBING RE	CORD	
SIZE	TOP (MD)	BOTTOM (MD) SACKS	CEMENT*	SCREEN (M	D)	SIZE	DEPTH SET	(MD)	PACKER SET (MD)
							_2 7/8"	7471'		
PERFORATION REC	CORD (Interval, si	ze and number	r)	<u> </u>	32.	ACID	SHOT ED	ACTION CENT	WT SOTT	PPF PTC
	e - 7265'-7		•	.38"	DEPTH INT			ACTURE, CEME		
	,	3.3 • 42		. 50						
Gallup	- 6717 ' -6	6966 ': 82	holes,	.38"				see atta	achmen	t -
		···								
B FIRST PRODUCT	ION BOCS	CTION METHO	(Floaring		OUCTION	and to:	of cu== \	· · · · · · · · · · · · · · · · · · ·		(Producing
6/09/86	PRODU				20", 2½";			! #	hut-in)	(Producing or
TE OF TEST	HOURS TESTED	CHOKE 8		O'N. FOR	OIL-BBL.		AS-MCF.	WATER-E		roducing
6/16/86	24	AOF	TEST	PERIOD	89	1	92	10		1034:1
W. TUBING PRESS.	CASING PRESSUR	E CALCULAT		—BB1	GAS-	MCF.		ERHBL.	OIL GR	AVITY-API (CORR.)
	38#	_	>	89		92	6n a =	2 1m	1	41.5
vented,		fuel, vented, e	tc.)			26		~	Philli	
#28, #32					ΠJ	JUING	2 4 1986	ACCE	PTED F	OR RECORD
I hereby certify		z and attache	d information	on is compl	ete and corre	OUN 4	termined #	al available	records	
(),		l'n.		_	_	~/	JN. L	/1 v ·		# 19 66
XM	som R. P.	Milling	тт	TITLE Vi	ice Pr	raent	ICT 3	DA	~ ~ 61	17/86
SIGNED	AU DI DI IT	Tino				8 2	11.31. ·			

77. SUMMARY OF PORU drill-stem, tests, increcoveries):	OUS ZONES: (Shelding depth int	ow all important a erval tested, cus	SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	38. GEOL	GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	TRUE
					MEAS, DEPTH	VERT. DEPTH
	3088'	3232'	Ojo Alamo - Water bearing sandstone	Ojo Alamo	3088	30881
	3232'	3269'	Kirkland - Shale	Kirkland	3232'	32321
·	3269'	3360'	Fruitland - Sandstone, Shale & Coal sequence, contains both water & gas in the sands.	Fruitland	3269'	3269'
	3360'	3450'	Pictured Cliffs - Gas bearing sandstones	Pictured Cliffs	3360'	3360'
	3450'	5070'	Lewis - Shale sequence	Lewis	3450"	3450*
	5070'	5196'	Cliff House - Water wet sandstone	Cliff House	5070"	5070'
	5196'	5498'	Menefee - Sandstone, shale & coal sequence, sandstones could contain one or any combination of oil, gas or water.	Menefee	5196'	51961
	5498*	5762'	Point Lookout - Sandstone sequence containing oil & gas.	Point Lookout	5498*	5498'
	5762'	6720'	Mancos - Shale	Mancos	5762'	57621
	6720'	7264'	Gallup - Sandstone, siltstone & shale - contains varying amounts of oil & gas	Gallup	6720'	6720'
	7264'	7374'	Sanostee - Siltstone - oil & gas bearing	Sanostee	7264'	72641
	7374	75791	Carlile - Calcareous shale - oil & gas	Carlile	7374'	7374'
	75791	76491	Greenhorn - Limestone & shale - oil & gas	Greenhorn	7579'	7579'
	7649*	7744'	Graneros - Sandstone & shale - oil & gas bearing	Graneros	7649'	7649'
	7744"	TD	Dakota - Sandstone & shale - oil, gas & water	Dakota	7744'	7744'

Attachment to Form 3160-4 Well Completion or Recompletion Report for the BEARCAT #1, Sec. 22-25N-2W Rio Arriba County, N.M.

#28. Casing Record/Cementing Record

Pumped 1st cement stage w/ 92 ft³ LW-3 w/ 10% salt and $\frac{1}{4}$ # Flocele per sx.; tailed in w/ 536 ft³ RFC w/ 10% salt and $\frac{1}{4}$ # Flocele/sx. Had full returns during job. Dropped opening tool for DV tool @ 6214', opend tool and attempted to break circ. Pressured up to 1000# and was unable to break circ.

Squeeze

Ist squeeze: Perf'd 4 holes @ 5690'. Could not break circ. Sqz'd w/ 800 sx (1670 ft³) 65/35 Poz w/ 4.3#/sx salt, 6% gel, 10#/sx kolite. Final sqz press. 2000 psi. Reversed out 2 bbls cmt. TOC 4260' by Bond Log.

2nd squeeze: Perf'd 4 holes @ 3285'. Could not break circ. Sqz'd $\overline{w}/$ 150 sx (177 ft³) Class B neat cmt. Final sqz press. 1050 psi. TOC 2850' by calc.

#31. Perforation Record

Sanostee Perfs: (2 JSPF)
7265', 68, 70, 74, 78, 91, 94,
7303', 09, 15, 18, 21, 26, 33, 43, 47, 51, 54, 61, 64, 73
(21 shot points, 42 holes)

Gallup Perfs: (2 JSPF)
6717', 21, 24, 27, 31, 36, 41, 44, 47, 50, 53, 58, 66, 77, 6781', 84, 87, 95, 6801', 10, 21, 27, 34, 44, 56, 91, 95, 6900', 02, 10, 14, 17, 25, 31, 34, 37, 45, 51, 53, 63, 66 (41 shot points, 82 holes)

#32. Acid, Shot, Fracture, Cement Squeeze, etc.

Sanostee:

1) Breakdown w/ 2% KCl wtr. Broke @ 1000 psi @ 1.5 BPM. Established rate of 8 BPM @ 3130 psi. ISIP 1200 psi. Pumped 10,000 gal 65 Qual foamed 15% HCl w/ additives & 84 ball sealers. ATP 3600 psi. AIR 8 BPM. Balled off to 4500 psi. Surged balls and overdisplaced acid. ISIP 550 psi.

2) 50,000 scf N_2 pad, 500 gal xylene w/ 1000 scf/bbl N_2 . 78,000 scf N_2 Flush. 2nd: displaced 500 gal xylene w/ 2% KC1.

Gallup:

- 1) Breakdown w/ 2% KC1. ISIP 390 psi. 5000 gal 15% DAD w/ 164 7/8" ball sealers. Good ball action. Balled off to 5500 psi. ATP 2000 psi. AIR 7 BPM.
- 2) 1147 bbls. 2% KC1, 30# x-linked gel. 1.66 MMscf N_2 , 13,000# 100 mesh sd., 50,000# 20/40 sd. 100,000# 10/20 sd. AIR 50 BPM. ATP 2400 psi. Formation locked up leaving 19,000±# sand in wellbore. Actual sand in formation 144,000# total.