

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires December 31, 1988

5. LEASE DESIGNATION AND SERIAL NO.

NM-68761

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

NM NM 88272X

8. FARM OR LEASE NAME

Cuba Mesa Unit 35

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Rio Puerco-Mancos Pool

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 35, T21N, R2W

12. COUNTY OR PARISH

Sandoval

NM

1a. TYPE OF WORK

DRILL ☐

DEEPEN ☒

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER Horizontal

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Bright & Company 210/341-9773

Agent

Permitco, Inc. 303/452-8888

3. ADDRESS OF OPERATOR

10100 Reunion Place, Suite 735

13585 Jackson Drive

San Antonio, TX 78216

Denver, CO 80241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

730' FSL & 1000' FWL (Unit M), Sec. 35, T21N, R2W

At proposed prod. zone

1029' FSL & 994' FWL

At TD: 1200' FNL & 660' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

6 miles west of Cuba, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

730'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

7464 MD, 4368 TVD

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL = 7013', KB = 7026'

22. APPROX. DATE WORK WILL START*

Immediately upon approval

23. Existing ~~EXPANDED~~ CASING AND CEMENTING PROGRAM

of this application

	SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Set	14-3/4"	10-3/4"	40.5	270'	250 sx ClB + 3% CaCl2
Set	9-7/8"	7-5/8"	26.4# & 29.7#	4026'	#1=725 sx; DV at 1100'; #2=215 sx
Set	6-1/2"	4-1/2" slotted liner	11.6#	3722' to 4886'	Not cemented

Bright & Company proposes to deepen the subject horizontal well from the present MD of 4886' (4255' TVD) to a MD of 7464' (4365 TVD). The 4-1/2" slotted liner shown above will be pulled prior to deepening.

If productive, the well will be completed and placed on production. If dry, the well will be plugged and abandoned as per BLM and State of New Mexico requirements.

See Onshore Order No. 1 attached.

Be advised that Bright & Company is considered to be the operator of the above mentioned location and is responsible under the terms and conditions of the lease for for the operations conducted on the lease lands.

Bond coverage for this well is provided by Bright & Company under their personal bond and letter of credit, as per the attached.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED G.W. Hunt G.W. Hunt TITLE Division Engineer DATE 12/24/92

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY SHIRLEY MONDY

TITLE Acting Area Manager

CONDITIONS OF APPROVAL, IF ANY:

NMCOO

RECEIVED FEB 19 1993
FEB 25 1993

*See Instructions On Reverse Side

OIL CON. DIV.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within the jurisdiction.

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq, 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

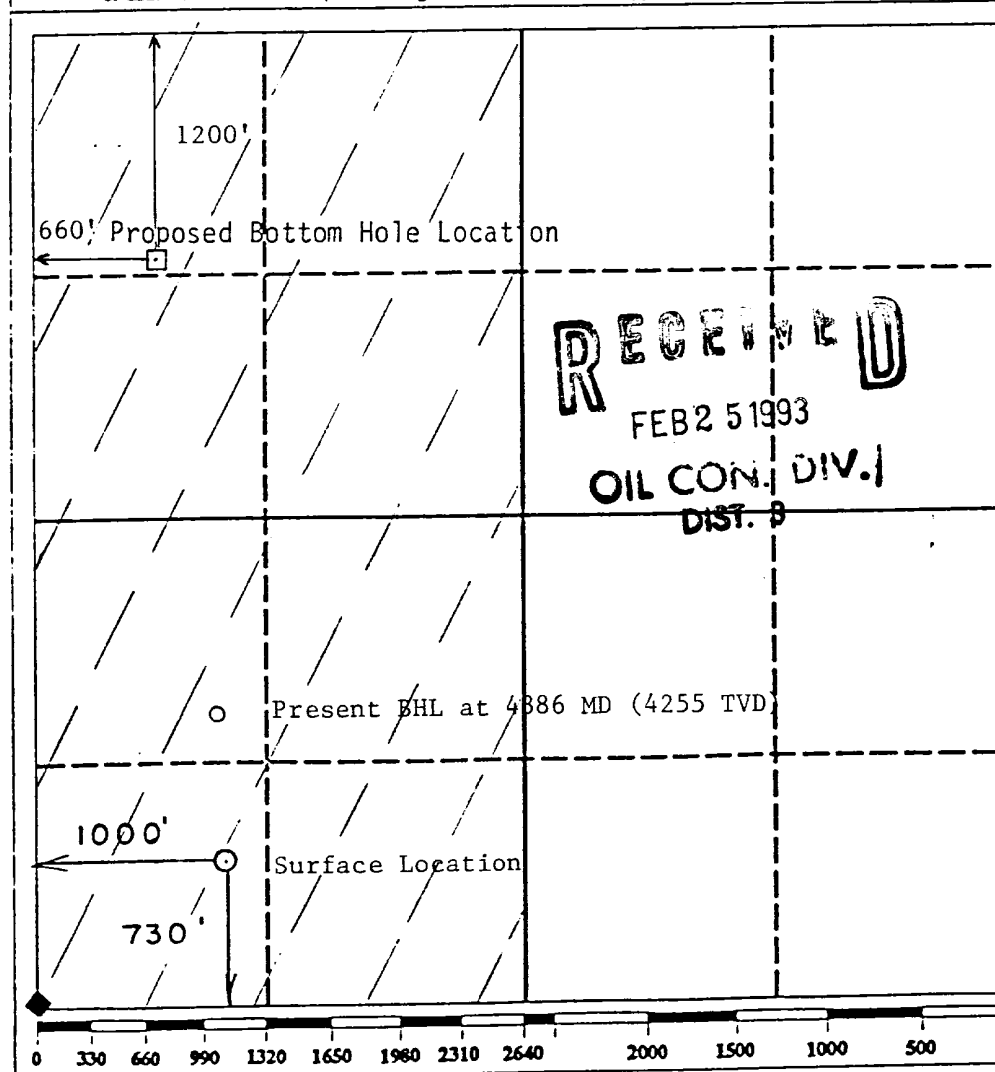
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator BRIGHT & Co.			Lease NM-68761 Cuba Mesa Unit 35		Well No. 1
Unit Letter M	Section 35	Township 21 N.	Range 2 W.	NMPM	County Sandoval
Actual Footage Location of Well: 730 feet from the South line and 1000 feet from the West line					
Ground level Elev. 7013'	Producing Formation Mancos		Pool NM NM 88272X Rio Puerco - Mancos Pool		Dedicated Acreage: 320 Acres
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? ☐ Yes ☐ No If answer is "yes" type of consolidation <u>N/A</u> If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.					



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Lisa L. Smith
Signature

Lisa L. Smith

Printed Name

Agent for:

Position

Bright & Company

Company

3/19/92

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

2 - 27 - 92

Signature & Seal of
Professional Surveyor

[Signature]
Professional Surveyor

Certificate No.

6844

CUBA MESA UNIT #35-1 93 JAN -8 AM 1:42
RIO PUERCO FIELD
SANDOVAL COUNTY, NEW MEXICO

RE-ENTRY AND DEEPENING PROCEDURE

Present Status

Elevation: GL = 7013', KB = 7026', GL to KB = 13'

Surface Casing: 10-3/4", 40.5#, K-55, ST&C at 270'. Cement with 250
sx ClB + 3% CaCl₂ + .25 lb/sk Cello-Seal. Cement returns =
6 bbls

Protective Casing: 7-5/8" at 4026'

0 - 3484', 26.4#, N-80, LT&C

3484 - 4026', 29.7#, N-80, LT&C

DV Tool at 1100'

Cement:

1st stage: 350 sx Super B + 5% salt + .25 lb/sk Cello-Seal
followed by 375 sx Cl B + .25 lb/sk Cello-Seal

2nd stage: 115 sx Super B + 5% salt + .25 lb/sk Cello-Seal
followed by 100 sx Cl B + 2% CaCl₂ + .25 lb/sk Cello-Seal

Cement returns = 5 bbls

Production Liner: 3722' to 4886' (1164') of 4-1/2", 11.6#, J-55, LT&C

-- TIW "L" Setting Collar at 3722'

-- 10 jts of 4-1/2", 11.6#, J-55, LT&C with no holes

-- 18 jts of 4-1/2", 11.6#, J-55, LT&C with 2 holes per ft.

-- TIW Pack-off Bushing

-- 1 shoe jt (5 ft long and orange peeled on bottom)

Note: Ran 3 centralizer on bottom 2 jts.

Tubing:

-- Purge Valve at 3736'

-- 1 jt of 2-7/8" tubing (30.85')

-- 8 ft perforated pup jt.

-- Seating Nipple

-- Tubing Anchor (Set with 15,000# of tension)

-- Tubing: 117 jts of 2-7/8", 6.5#, N-80, EUE

Rods & Pump:

-- 12' gas anchor (4 ft of perfs on bottom) at 3724'

-- 2-1/2" x 2" x 20' RWAC pump at 3712'

-- 150' of 1.25" sinker bars (6 lb/ft)

-- 700' of 3/4" Type 78 rods (28 rods)

-- 2825' of 7/8" Type 78 rods (113 rods)

-- Pony rods (8', 6' & 4')

TD: 4886' MD, 4255' TVD, Drift Angle = 87.5 degrees,

Azimuth = 357 degrees, Horizontal Displacement = 793.9'

Tree: Casinghead: 10-3/4" SOW x 11" 3000#

Tubinghead: 11" 3000# x 7-1/16" 5000#

NMOCD

Procedure

- 1) Move-in and rig-up Big A workover rig.
- 2) Pull out of hole with rods and pump.
- 3) ND tree and NU BOP's.
- 4) Release tubing anchor at 3694' and pull out of hole with 2-7/8" tubing.
- 5) GIH with spear (for 4-1/2", 11.6# casing), jars and 2-7/8", 6.7#, N-80, EUE tubing. Set spear at 3725' (3' below top of liner at 3722'). Pull and laydown 4-1/2", 11.6#, J-55, LT&C liner.

Note: Do not exceed 80% of tension rating of tubing.

- 6) GIH with 6-1/2" bit and 2-7/8" tubing and clean out to 4886' MD. Use nitrogen to circulate hole clean.
- 7) GIH with RTTS tool (for 7-5/8", 29.7# casing). Set RTTS tool at 4000' (angle = 31°). Test RTTS tool by pressuring up on annulus to 1500#.
- 8) Squeeze fractures from 4770' to 4886' with the following:
 - A) Pump 20 barrels Fresh Water
 - B) Pump 20 barrels 10% Calcium Chloride Water
 - C) Pump 4 barrels Fresh Water
 - D) Pump 10 barrels Flochek
 - E) Pump 4 barrels Fresh Water
 - F) Mix and pump 50 sx Premium Cement containing 15% Halliburton Gel and 6#/sk Gilsonite (Wt = 12.0 ppg, Yield = 2.65 cu ft/sk)
 - G) Displace cement with 2% KCl water
- 9) If cement does not squeeze-off in fractures, overdisplace and re-squeeze. POOH and lay down tubing.

Note: Assume a 7" open hole to 4886 MD and overdisplace 20 bbls.

- 10) Hang-off 1 jt of tubing in tubing hanger. Install valve. ND BOP's.
- 11) Rig-down and move out workover rig.
- 12) Move pumping unit to edge of location.
- 13) Move-in Four Corners Drilling Co. Rig #14.

Note: Notify BLM (Patricia Hester at 505/327-5344) and Cuba Ranger District for the Santa Fe National Forest (Dennis Hillard at 505/289-3265) prior to testing BOP's.

- 14) Install the following at rig-up:
 - Mud logger (Subsurface, Inc.)
 - Skimmer System
 - Super Choke (Quadco Oilfield Sales)
 - Two Air Compressors (rated 800 SCFM per compressor) and Mist Pump (Northwestern Air Drilling Service Co.)
- 15) Nipple up BOP's.
 - Adapter Spool (7-1/16" 5000# x 11" 3000#)
 - 11" 3000# Double ram BOP's with pipe rams on bottom and blind rams on top)
 - 11" 3000# Annular BOP
 - Rotating Head (AZ/Grant)

- 16) Test BOP's, choke manifold, inside BOP, kelly cock, stand pipe valve and kill line to rated pressure. Test annular BOP to 1500# (50% of rated pressure). Install wear ring.

Note:

- A) Have a full opening valve and inside BOP on the floor for each size of tubulars being used.
B) Record BOP test on IADC report form.

- 17) GIH with the following to top of cement:
-- 6-1/2 PDC Bit, R 482 GN with 3-20/64" nozzles
-- 4-3/4" Mach I AD air drilling AKO motor, set at 1.1 degree
-- Float Sub
-- Stabilizer, Offset (6")
-- Crossover Sub
-- Geoservices MWD
-- Extension Sub
-- Crossover Sub
-- 1 jt of drill pipe
-- Restrictor Sub
-- 2950 ft of 3-1/2", 13.3 lb/ft, S-135 drill pipe with 3-1/2" IF tool jts
-- 1350 ft of 3-1/2", HWDP with 3-1/2" IF tool jts
-- 3-1/2", 13.3 lb/ft, S-135 drill pipe with 3-1/2" IF tool jts

Note: Notify the Supervisor of the Aztec District Office (Frank Chavez at 505/334-6178) of the date and time of commencement of directional drilling operations.

- 18) Displace hole with foam and drill cement and new hole.

Note:

- A) If hole starts loading-up with oil and water and returns are lost, install jet sub at +/- 1800'
B) The projected survey data at TD is as follows: 4886' MD, Drift Angle = 87.5⁰, Azimuth = 357⁰, 4255.16' TVD, Vertical Section = 792.44', N = 792.61', W = 40.53'
C) The target is in the Gallup "B-2" Sand from 4211' to 4214' (see DIL log of pilot hole on 6/22/92)
D) The formation dip is 2.50 degrees in a direction of 341⁰ (from dipmeter log)
E) At 1900' displacement, the dip increase to 4.75 degrees in a direction of 341⁰ (determined from seismic)

- 19) The mud system will be a foamed 2% KCl New Drill system. Circulate through skimmer system. Inject defoamer and demulsifier upstream of the mud gas separator.

Note: To build 10 bbl of injection fluid:

TD-4 (foaming agent)	= 2 gals
KCl	= 70 lbs
New Drill	= 1.2 gal
KD - 700 (corrosion inhibitor)	= 0.5 gal

- 20) The bottom hole location will be 1200' FNL and 660' FWL of Section 35, T 21 N, R 2 W. In order to reach the BHL from the present TD (4886' MD), the required azimuth will be 353.2⁰ and the required additional hole to be drilled will be 2575' (TD = 7464'). From the surface location the azimuth to the BHL is 354.2⁰ and the horizontal displacement is 3367'.
- 21) The mud log samples and the Gamma Ray log from the Geoservices MWD will be used to determine the change in hole angle required to stay in the target.

- 22) If the mud log shows indicates a commercial well, a 4-1/2" slotted liner will be set. Run liner on TIW "LN" setting tool. To release setting tool from setting collar, turn to right and POOH. Space out so that the top of the liner is at approximately 3790'.

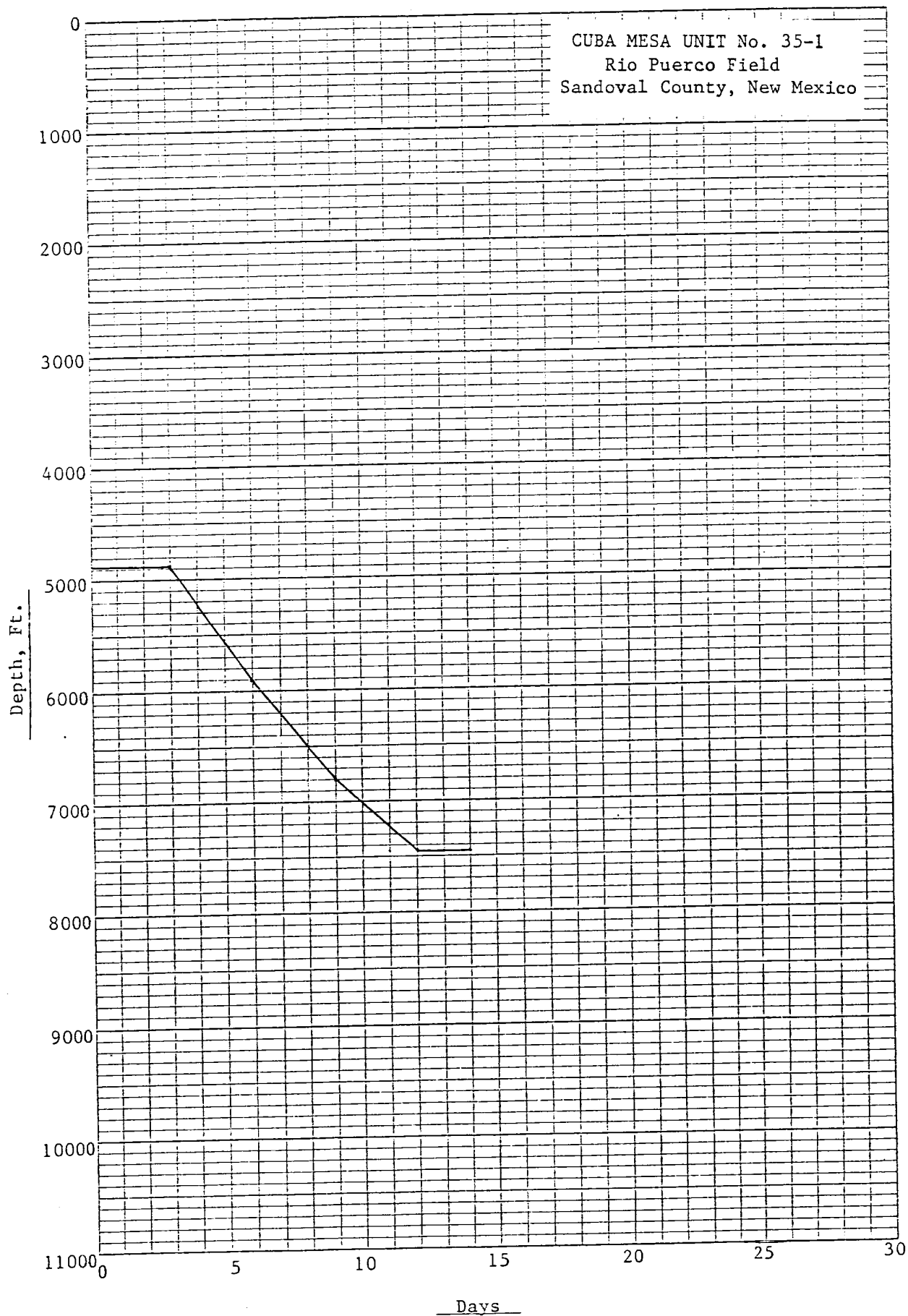
Note: Pipe in stock at Monarch's Yard -
1283' (31 jts) of 4-1/2", 11.6#, J-55, LT&C perforated with 2 HPF
(by A-1 Wellhead)
494' (12 jts) of 4-1/2", 11.6#, J-55, LT&C (not perforated)

Prior to running pipe, clean internally to remove scale and clean threads.

- 23) Lay down drill string. ND BOP's and NU tree.
- 24) Rig-down and move out drilling rig.
- 25) Re-install pumping unit.
- 26) Move-in Big A workover rig.
- 27) ND tree and NU BOP's.
- 28) GIH with the following:
-- Purge valve
-- 1 jt of 2-7/8" tubing
-- 8 ft perforated pup jt
-- Seating nipple
-- Tubing anchor (7-5/8" x 2-7/8" Rat 33 TAC)
-- 2-7/8", 6.5#, N-80, EUE tubing
- 29) Space out tubing anchor so that the tubing anchor will be as close as possible to the top of liner. Hang-off tubing with 15,000# of tension.
- 30) GIH with the following:
-- 12 ft gas anchor (4 ft of perfs on bottom)
-- 2-1/2" x 2" x 16' RWAC pump
-- 150' of 1.25' sinker bars (6 lb/ft)
-- 700' of 3/4", Type 78 rods
-- 7/8", Type 78 rods
- 31) Space out and seat pump.
- 32) Test well and release workover rig.

46 2290

KE 1 MONTH BY DAYS X 110 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.



BRIGHT CO.
SEC 35-T21N-R2W, CUBA MESA UNIT#35-1
RIO PUERCO, SANDOVAL COUNTY, NEW MEXICO

PROPOSAL LISTING Page 1
Your ref : CUBA MESA#1
Last revised : 23-Dec-92

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	
4886.00	87.50	357.00	4255.16	792.61 N	40.53 W	0.00	792.65	TIE ON AT TD SIDETRACK#1
4890.00	87.50	357.00	4255.33	796.60 N	40.74 W	0.00	796.64	KOP
4900.00	87.50	356.60	4255.77	806.57 N	41.30 W	4.00	806.62	
4983.91	87.50	353.24	4259.43	890.06 N	48.72 W	4.00	890.43	END OF 4 DEG./100' TURN
5000.00	87.50	353.24	4260.13	906.03 N	50.62 W	0.00	906.50	
5500.00	87.50	353.24	4281.94	1402.08 N	109.42 W	0.00	1405.96	
6000.00	87.50	353.24	4303.75	1898.13 N	168.21 W	0.00	1905.41	
6500.00	87.50	353.24	4325.56	2394.18 N	227.01 W	0.00	2404.86	
7000.00	87.50	353.24	4347.37	2890.23 N	285.81 W	0.00	2904.32	
7464.00	87.50	353.24	4367.61	3350.57 N	340.38 W	0.00	3367.81	TOTAL DEPTH

All data is in feet unless otherwise stated
Coordinates from slot #1 and TVD from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 354.20 degrees.
Declination is 11.45 degrees, Convergence is -0.59 degrees.
Calculation uses the minimum curvature method.
Presented by Eastman Teleco

12/23/92 16:31

303 860 0827

ET DENVER

002/005

BRIGHT CO.

Structure : SEC 35-T21N-R2W

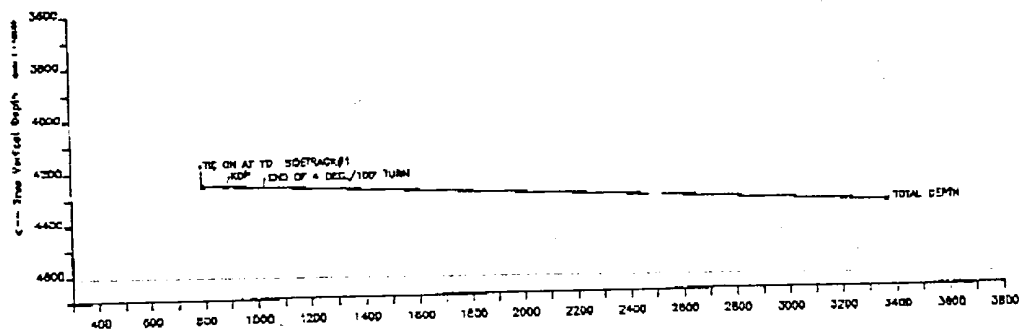
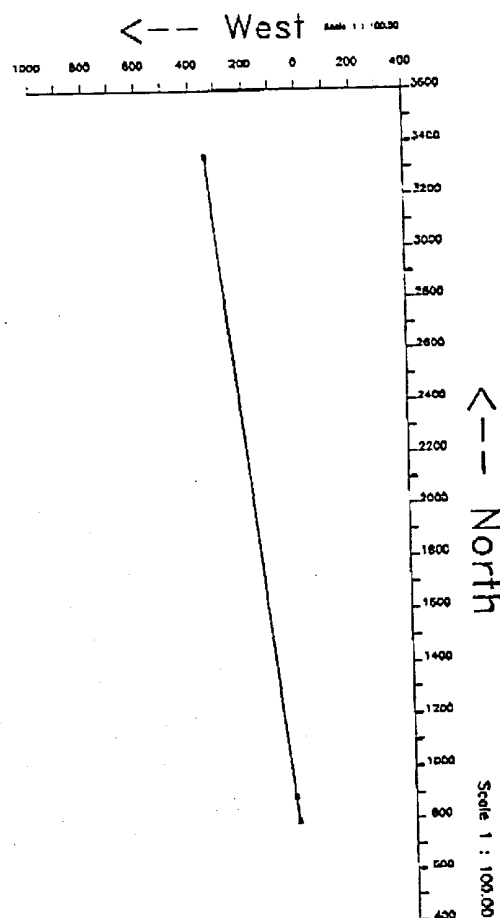
Well : CUBA MESA UNIT#35-1

Field : RIO PUERCO

Location : SANDOVAL COUNTY, NEW MEXICO

WELL PROFILE DATA

Point	NO	Inc	Dir	TVD	North	East
Top of	4886	87.50	357.00	4250	793	-40
End of Hole	4920	87.50	357.00	4255	798	-41
End of Turn	4984	87.50	353.24	4259	890	-42
End of Hole	7894	87.50	353.24	4388	3350	-340



Company **BRIGHT & COMPANY**

Cell Name & No. CUBA MESA UNIT#35-1

Rig Contractor & No. **FOUR CORNERS - 14**Field R

Survey Section Name SPUDD SECT 3

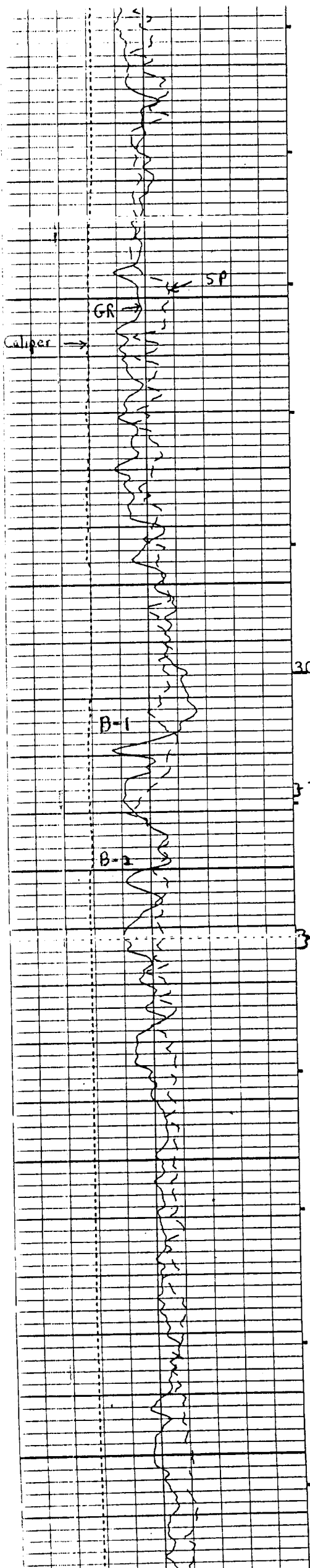
EC Representative

WELL DATA

Target TVD	(FT)	Target Coord. N/S	Slot Coord. N/S	0.00	Grid Correction	-0.590	Depth
Target Description		Target Coord. E/W	Slot Coord. E/W	0.00	Magn. Declination	11.450	Calculation
Target Direction	(DD)	Build/Walk/DL per: 100ft ☒ 30m ☐ 10m ☐	Vert. Sec. Azim.	354.20	Magn. to Map Corr.	12.040	Map Name

SURVEY DATA

Date	Survey Tool Type	Survey Depth (FT)	Incl. Angle (DD)	Hole Direction (DD)	Course Length (FT)	TVD (FT)	Vertical Section	Total Coordinate		DL (Per 100 FT)	Build Rate Build (+) Drop (-)	Walk Rate Right (+) Left (-)	
								N(+) / S(-) (FT)	E(+) / W(-) (FT)				
	MMS	2533.00	1.26	137.71	63.00	2532.68	-27.09	-25.97	12.40	0.74	-0.05		
	MMS	2719.00	1.91	152.43	186.00	2718.61	-31.61	-30.23	15.21	0.41	0.35		
	MMS	2781.00	1.42	144.22	62.00	2780.58	-33.24	-31.77	16.14	0.88	-0.79		
	MMS	2843.00	2.08	131.44	62.00	2842.56	-34.73	-33.14	17.43	1.23	1.06		
	MMS	2905.00	1.65	170.67	62.00	2904.52	-36.45	-34.76	18.42	2.12	-0.69		
	MMS	3030.00	1.27	163.80	125.00	3029.48	-39.60	-37.87	19.10	0.33	-0.30		
	MMS	3092.00	1.53	175.11	62.00	3091.46	-41.11	-39.35	19.36	0.61	0.42		
	MMS	3216.00	1.10	141.49	124.00	3215.43	-43.76	-41.94	20.24	0.70	-0.35		
	MMS	3278.00	1.05	173.60	62.00	3277.42	-44.83	-42.96	20.68	0.96	-0.08		
	MMS	3340.00	1.38	165.47	62.00	3339.41	-46.14	-44.25	20.92	0.60	0.53		
	MMS	3402.00	1.52	154.70	62.00	3401.39	-47.65	-45.72	21.46	0.49	0.22		
	MMS	3589.00	1.36	163.06	187.00	3588.33	-52.17	-50.08	23.17	0.14	-0.08		
	MMS	3713.00	1.82	180.73		3712.28	-55.66	-53.46	23.57	0.54			TI
1/2 at 3770	MWD	3755.00	1.60	176.70	42.00	3754.26	-56.90	-54.71	23.60	0.60	-0.52		
	MWD	3786.00	1.00	7.90	31.00	3785.26	-57.07	-54.88	23.66	8.35	-1.94		
	MWD	3818.00	6.10	0.20	32.00	3817.19	-55.11	-52.90	23.71	15.97	15.94	-24.06	
	MWD	3848.00	12.10	359.50	30.00	3846.80	-50.39	-48.16	23.68	20.00	20.00	-2.33	
	MWD	3878.00	19.30	0.90	30.00	3875.66	-42.33	-40.04	23.74	24.03	24.00	4.67	
	MWD	3909.00	24.80	354.60	31.00	3904.39	-30.74	-28.44	23.20	19.29	17.74	-20.32	
	MWD	3940.00	28.90	359.50	31.00	3932.04	-16.77	-14.47	22.52	15.02	13.22	15.81	
	MWD	3972.00	30.70	1.60		3959.81	-0.48	1.43	22.69				TI
1/2 at 4026	MWD	4037.00	31.75	1.00	65.00	4015.39	32.44	35.12	23.45	1.68	1.62	-0.92	7
	MWD	4068.00	29.88	354.50	31.00	4042.02	48.26	50.96	22.85	12.31	-6.03	-20.97	
	MWD	4099.00	32.13	351.00	31.00	4068.59	64.21	66.80	20.82	9.30	7.26	-11.29	
	MWD	4129.00	37.00	353.50	30.00	4093.29	81.22	83.66	18.55	16.90	16.23	8.33	
	MWD	4159.00	41.80	354.00	30.00	4116.47	100.26	102.58	16.48	16.03	16.00	1.67	
	MWD	4190.00	46.37	352.50	31.00	4138.73	121.81	123.99	13.94	15.12	14.74	-4.84	
	MWD	4221.00	51.50	352.50	31.00	4159.09	145.17	147.15	10.89	16.55	16.55	0.00	
	MWD	4253.00	56.75	353.00	32.00	4177.83	171.09	172.87	7.62	16.45	16.41	1.56	
	MWD	4284.00	61.75	353.50	31.00	4193.68	197.72	199.32	4.49	16.19	16.13	1.61	
	MWD	4315.00	67.50	353.50	31.00	4206.96	225.72	227.13	1.32	18.55	18.55	0.00	
	MWD	4346.00	73.00	354.00	31.00	4217.43	254.88	256.12	-1.85	17.81	17.74	1.61	
	MWD	4378.00	78.88	354.50	32.00	4225.20	285.91	287.00	-4.96	18.44	18.38	1.56	
	MWD	4415.00	85.50	354.50	37.00	4230.22	322.54	323.46	-8.47	17.89	17.89	0.00	
	MWD	4446.00	87.63	355.00	31.00	4232.08	353.48	354.28	-11.30	7.06	6.87	1.61	
	MWD	4477.00	86.75	355.00	31.00	4233.60	384.44	385.12	-14.00	2.84	-2.84	0.00	
	MWD	4508.00	85.63	355.50	31.00	4235.66	415.36	415.95	-16.56	3.96	-3.61	1.61	
	MWD	4540.00	85.63	355.50	32.00	4238.10	447.26	447.76	-19.06	0.00	0.00	0.00	
	MWD	4570.00	85.63	355.50	30.00	4240.39	477.16	477.58	-21.41	0.00	0.00	0.00	
	MWD	4602.00	85.13	356.00	32.00	4242.96	509.04	509.38	-23.77	2.21	-1.56	1.56	
	MWD	4633.00	87.00	356.50	31.00	4245.09	539.94	540.24	-25.79	6.24	6.03	1.61	
	MWD	4665.00	88.38	356.50	32.00	4246.38	571.88	572.16	-27.75	4.31	4.31	0.00	
	MWD	4697.00	88.00	356.50	32.00	4247.39	603.83	604.08	-29.70	1.19	-1.19	0.00	
	MWD	4727.00	87.25	356.50	30.00	4248.64	633.77	634.00	-31.53	2.50	-2.50	0.00	
	MWD	4759.00	88.00	356.50	32.00	4249.96	665.71	665.91	-33.48	2.34	2.34	0.00	
	MWD	4790.00	87.88	356.50	31.00	4251.08	696.66	696.83	-35.37	0.39	-0.39	0.00	
	MWD	4822.00	87.50	357.00	32.00	4252.36	728.60	728.76	-37.18	1.96	-1.19	1.56	
	MWD	4886.00	87.50	357.00	64.00	4255.16	792.44	792.61	-40.53	0.00	0.00	0.00	



4100

30

Target

4200

Target

4300

DTL-SFL 6/22/12

