N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue Artesia, NM 88210

Form 3160-3 (April 2004)			OMB No. 1004 Expires March	-0137	
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	5. Lease Serial No	32636			
APPLICATION FOR PERMIT TO	DRILL OR REENTER		6. If Indian, Allotee or Ti	ibe Name	
la. Type of work: DRILL REENTE	ER .		7 If Unit or CA Agreemen	t, Name and No.	
1b. Type of Well: Oil Well Gas Well Other	8. Lease Name and Well No. Teledyne 12 Federal				
2. Name of Operator RB Operating Company	9. API Well No.	015-3393			
3a. Address 777 Main Street Suite 800 Fort Worth TX 76102 3b. Phone No. (include area code) (817) 810-1908 RECEIVE			10. Field and Pool, or Exploratory		
4. Location of Well (Report location clearly and in accordance with any At surface 990' FSL & 990' FWL	State requirements *)	0 3 200	11. Sec., T. R. M. or Blk and	l Survey or Area	
At proposed prod. zone 990' FSL & 990' FWL	OCU-,	HIEL	Sec., T23S, R28E	N.M.P.M.	
14. Distance in miles and direction from nearest town or post office* 3.6 Miles Northeast From Loving, NM			12. County or Parish Eddy	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of acres in lease				
(Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.			BIA Bond No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2995'	22. Approximate date work will star 03/01/2005	carls	23. Estimated duration 15 Days BAD CONTROLLEI	WATER BASIN	
	24. Attachments				
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	4. Bond to cover the learn 20 above). Lands, the 5. Operator certific	ne operation specific info	ns unless covered by an existi		
25. Signature	Name (Printed/Typed) Linda C. Stiles		Date	11/05/2004	
Title Sr. Engineering Tech					
Approved by (Signature)	Name (Printed/Typed)	~5	Horall Date	FEB - 2 2005	
Tide FOR FIELD MANAGER	Office CA	-	AD FIELD OF		
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	• •		ject lease which would entitle VAL FOR 1 YE	• •	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 its jurisdiction.

*(Instructions on page 2)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

ACITY OF THE PARTY OF THE PARTY

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II

1 I

DISTRICT IV

1301 W. GRAND AVENUE, ARTESIA, NM 68210

N. FRENCH DR., HOBBS, NM 88240

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

1220 S. ST. FRANCIS DR., SANTA FE, NM 67505

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

API Number	API Number			Pool Code			Pool Name			
Property Code						roperty Name Well Number IE 12 FEDERAL 1				
OGRID No.		Operator Name R.B. OPERATING					Elevation 2995'			
	Surface Location									
UL or lot No. Section	Township	Range	Lot Idn	Feet fre	om the	North/South line	Feet from the	East/West line	County	
M 12	23-S	28-E		99	90	SOUTH	990	WEST	EDDY	
	Bottom Hole Location If Different From Surface									
UL or lot No. Section	Township	Range	Lot Idn	Feet fro	om the	North/South line	Feet from the	East/West line	County	
Dedicated Acres Joint	or Infill Co	nsolidation	Code Or	der No.	_	·				
NO ALLOWABLE						UNTIL ALL INTER APPROVED BY		EEN CONSOLIDA	ATED	
990' 600'	96.2'	NAL Y=4 X=5 LAT.=32	C COORDII C 27 NME 78598.4 88832.8 218'55.64 04'02'44.8	N E 4" N			Signature Printed Nam Printed Nam Title I hereby certific on this plat we actual surveys supervison as correct to the Professional Certificate N	R CERTIFICAT The control of the con	FION FION FION FION I notes of under my true and f.	



RB OPERATING COMPANY Drilling Program

Prepared 12/3/2004

PROPOSED DEPTH: 6400' MD

COUNTY:

Eddy, NM

6400' TVD

ANTICIPATED PRODUCTIVE FORMATION: Brushy Canyon

NMOCD PERMIT #: xxxxxx

API NO: 30-015-xxxxx

GENERAL:

This will be a 6400' Brushy Canyon producer in Eddy Co., New Mexico drilled on a daywork basis by Patterson Rig #65. After building the surface location Rig #65 will move in and drill a 12-1/4" surface hole to +/-570. Actual TD will be spaced so that casing will be landed where the casing head can be screwed on. A string of 8-5/8" casing will be run and cemented to surface.

Nipple up BOPs and test same, drilling will continue with a 7-7/8" hole to a total depth of 6400'. Actual TD will be spaced so that casing will be landed where the casing head can be screwed on. After electric-logging the open-hole interval, a string of 5-1/2" casing will be run and cemented from total depth to surface and the tubing head installed.

Well will be drilled on a daywork contract.

ESTIMATED FORMATION TOPS: (Log Depths)

Anticipated tops are approximate:

Pardue	4670'
BC 'A'	5905'
BC 'B'	5990'
BC 'C'	6105'
BC 'D'	6170'
Total Depth	6400'

DETAILED DRILLING PROCEDURE

TIMES AND EVENTS TO NOTE ON DRILLING REPORT:

- A. SPUD
- B. TD
- C. RIG RELEASE

MUD PROGRAM

INTERVAL	MUD WEIGHT	FUNNEL VIS.	PV/YP	API Fluid Loss
0' - 570'	8.4 – 9.0	36-45	7,000	NC
570'-6000'	9.9 – 10.1	28-32		NC
6000'-6400'	9.9 - 10.2	34-38		Less than 20

- 1) Level and build an all-weather location and access road.
- 2) MIRU Patterson Rig #65. Perform rig safety inspection and ensure that everything is in proper working order prior to spudding well. In some areas it may be necessary to set a conductor due to sand. The well will be drilled with a closed loop mud system. RU rails and cuttings catch tanks and additional mud cleaning equipment.
- 3) Notify NMOCD of intent to spud, run casing and cement each 24 hours in advance 505-748-1283.
- 4) Spud well with 12.25" mill tooth bit. BHA should consist of 4-8" drill collars and 6" drill collars. Drill to +/- 570' (Actual depth will be determined by the length of the casing). Circulate hole clean. Sweep and condition hole to run casing. Drop a TOTCO prior to POOH (must run 1st survey prior to 500' per NMOCD rules). Pull out of hole, lay down 12.25" BHA.

NOTE: Mud through this interval will be a native spud mud supplemented with Bentonite. Lime may be used to flocculate the mud and increase the yield point to clean the hole. Mix paper for seepage control. Utilize all solids control equipment to control drill solids. Run as fine of mesh shaker screens as possible. Use water to control mud weight and viscosity. Maintain mud weight at 8.4 – 9.0 ppg.

5) Make sure to get mill test papers with surface casing. Rig up casing crew and run 8-5/8", 24.0#, J-55, ST&C as follows:

1-8-5/8" Texas Pattern Shoe

1-8-5/8" Insert Float Collar

1-8-5/8" x 12-1/4" Centralizer 10' above shoe

1-8-5/8" x 12-1/4" Centralizer next two joints

1-8-5/8" Stop Ring

- 6) Circulate for at least bottoms up plus one casing volume with mud prior to cementing. Cement surface casing according to cement recommendation. NOTE: Have field bin, cement, and circulating equipment on location prior to casing job. DO NOT call for pump truck until needed. Attempt to cut down on hours over minimum.
 - a) Review rates, pressures, displacement volumes and casing pressure rating with Service Company and rig personnel. All cement slurries are to be lab tested; both a pilot test and a test of the actual field blend. Report results, including 24 hour compressive strengths, to the office. (See Cement Testing Requirements below). Also keep two samples of each dry cement.

WITNESS

- b) Cement well as follows: Pump 10 bbl fresh water, mix 350 sxs class "C" with 2% CcCl2, 1/4# celloseal mixed @ 14.8ppg & 1.32 ft3/ sx Tail, Displace with fresh water, Bump plug with w/ 500 psi over final pump pressure.
- c) If cement is not circulated to surface, contact the office and the NMOCDC and prepare to run 1" and top out cement. Have 1" pipe on location for top-out.
- d) If cement falls, fill 12.25" X 8-5/8" annulus with cement.
- 7) Release pressure and check for flow back. If float is holding WOC six (6) hours before NU wellhead and BOP. Otherwise shut in well, hold & WOC 12 hours. Well must stand at least 8 hours total before any testing of casing is performed per NMOCD.
- 8) After Cementing casing, screw on 8-5/8" Larkin Model 92 style casing head. Test BOP blind Rams & choke manifold 250#

high. Pick up bit (Reed TD53B, jetted w/ 3-12's) & BHA, trip in hole, test BOP pipe rams 250# low & 3000#. essure test casing to 1000 psi for 30 minutes prior to drilling out shoe.

MUD NOTES: See Mud Program for details

After cementing 8-5/8" casing circ pit with brine water. Mix paper for seepage control. Utilize pre-hydrated Gel/Lime sweeps for flushing the hole. Run all available solids control equipment to control weight. Add brine water as needed to maintain volume. Add LCM to system only as needed. Use batch LCM treatment if losses occur and maintain as needed.

- 9) Drill ahead with brine water in 7-7/8" hole taking deviation surveys every ±500' or nearest bit run per NMOCD rules. Use sweeps as needed to clean hole. Drill to +/-6400; exact TD will be determined by the length of the casing. Sweep and condition hole in preparation for logging. Spot a 50 bbl, 40-42 visc pill prior to POOH for logs. Strap out of hole.
- 10) RU Wire line Truck and Tools. Log well as instructed by RB Operating. Rotary sidewall cores may be required along with RFTs.
- 11) Make a conditioning trip prior to running casing. Trip into hole with BHA and drill pipe, break circulation at 2400'. Ream last two stands to bottom. Circulate and condition hole. Maintain viscosity of 38. TOH laying down 4-1/2" drill pipe and drill collars. Clear floor and prepare to run casing.
- 12) Rig up casing crew and run 5-1/2" 15.5#, J-55, LT&C as follows:
 - a) Float shoe (thread-lock)
 - b) 2 jts. 5-1/2", 15.5#, J-55, LT&C casing (thread-lock)
 - c) Float collar (thread-lock)
 - d) 5-1/2", 15.5#, J-55, LT&C Casing to 3350'.
 - e) DV tool.
 - f) 5-1/2", 15.5#, J-55, LT&C Casing to surface.

The two bottom joints of 5-1/2" casing and the float shoe and float collar should be thread-locked (do not weld pipe). Run 1 centralizer 5' above shoe with limit clamp, one on the next collar, one just below the float collar with limit clamp and one per joint up to 4500'. Run 1 centralizer above and below the DV tool.

- 13) Circulate mud for at least bottoms up plus one casing volume prior to cementing.
- 14) Cement the production casing as follows. Re-figure cement volumes on a basis of: caliper + 20% + 50 sx. Precede Cement with 20 bbl fresh water, 500 gals superflush, 20 bbl fresh water

Stage One:

Lead: 600 sx 50:50 Poz C + 2% Gel + 0.40% TF-4 + 57% water + 0.3% CF-2 + 10 pps Gilsonite, mixed at 13.6 ppg, 1.48 ft3/sk.

Tail: 150 sx. Class "C" + 0.2% TF-4 + .3% CF-14 + 56% water, mixed at 14.8 ppg, 1.33 ft3/sk.

Release pressure and check for flow back. After bumping plug, drop DV tool opening dart and allow to fall. Open DV tool and circulate 4 to 6 hours. Mix and pump stage two.

Stage Two:

Lead: 820 sx 35:65 Poz C + 10% D44 + 6% D20 + 0.2% D46, mixed at 12.7 ppg, 2.08 ft3/sk.

100 sx Class C + 2% CaCl2, mixed at 14.8 ppg, 1.34 ft3/sk.

- a) Review rates, pressures, displacement volumes and casing pressure rating with Service Company and rig personnel. All cement slurries are to be lab tested; both a pilot test and a test of the actual field blend. Report results, including 24 hour compressive strengths, to the office. (See Cement Testing Requirements below). Also keep two samples of each dry cement.
- b) Have additional water storage on location as necessary for mixing cement. Have water analyzed by cementing company for compatibility with cement and chemicals.
- c) Reciprocate pipe during job. Pump spacer and cement at 7-8 BPM. When the last cement has been pumped, maintain rate at 7-8 BPM. Displace with fresh water. When reaching displacement to shoe joint minus 10 bbls slow pump rate to 2 barrels per minute or less prior to bumping plug.
- d) Bump plug with 500 psi over final displacement pressure and hold pressure for 15 minutes.
- e) If cement does not circulate notify NMOCD office.
- 15) Release pressure and check for flow back. If floats are holding, continue to make preparations to hang 5-1/2" casing one foot off bottom. If floats do not hold, wait 12 hours on cement.
- 16) Set 5-1/2" slips in "A" section. Nipple down BOP, Nipple up well head.
- 17) Install cap. Clean mud pits and release rig.

CEMENT TESTING REQUIREMENTS:

Laboratory Blend:

Obtain thickening time, rheology, water loss, and compressive strengths of the laboratory cement blend with a water sample of the actual water to be used in cementing for each cement

slurry to be pumped.

Field Blend:

Obtain thickening time of the field cement blend with a water sample of the actual water to be used in cementing for each slurry to be pumped. If the thickening time of the field blend is consistent with the thickening time of the laboratory blend, proceed with the cement job. If not, wait on the compressive strength results. Regardless of thickening time results, obtain all of the compressive strengths of field blend to compare with the compressive strengths of the

laboratory blend.

NAME I TO BE	POSITION(%)	EXCEPT SHOVE	HOMEPHONE	類的背景等的的影響
George Allen Teer	VP of Operations	(817) 723-1107	(817) 491-3740	(817) 870-2601
Don Robinson	Drilling Manager	(469) 450-2281	(972)-317-8345	(817) 509-1506
Andrew Tullis	District Engineer	(817) 797-2804	(214) 505-0233	(817) 509-1505
Martin Emery	Chief Geologist	(817) 366-3693	(817) 430-4861	(817)870-2601
Linda Stiles	Engineering Tech / Environmental Matters	(817) 291-4618	(817) 561-5544	(817) 810-1908
Bobby Ebeier	District Landman	(817) 688-0712	(817) 923-0306	(817) 810-1987

DRILLING PROGNOSIS : TELEDYNE 12 FEDERAL #1 **AFE** : 990' FSL and 990' FWL, Sec 12-T23S-R28E **FIELD** : LOVING EAST SL : EDDY COUNTY **OBJECTIVE : BRUSHY CANYON** COUNTY : NEW MEXICO : 6500' MD STATE PERMIT NO : GL=2995' **FORMATION** HOLE MUD **LOGS & CASING KB =13' AGL TOPS** RB OPERATING COMPANY SIZE WEIGHT 14" Conductor- Preset 8.5-9.0 ppg 12 1/4" **WBM** 8-5/8", 24#, J-55, STC (0-300') 300' 7-7/8" Mudlogger on location @ 2500' 10.0-10.2 ppg **WBM** (Brine) (POTENTIAL 4670 Pardue (OBJECTIVE) 5905' Brushy Canyon "A" (OBJECTIVE) 5990' Brushy Canyon "B" (OBJECTIVE) 6105' Brushy Canyon "C" (OBJECTIVE) 6170' Brushy Canyon "D" RESISTIVITY/SONIC/ **NEUTRON-DENSITY/GR** RFT'S **ROTARY SIDEWALLS**

5-1/2", 15.5#, J-55, LTC (0'-6400')

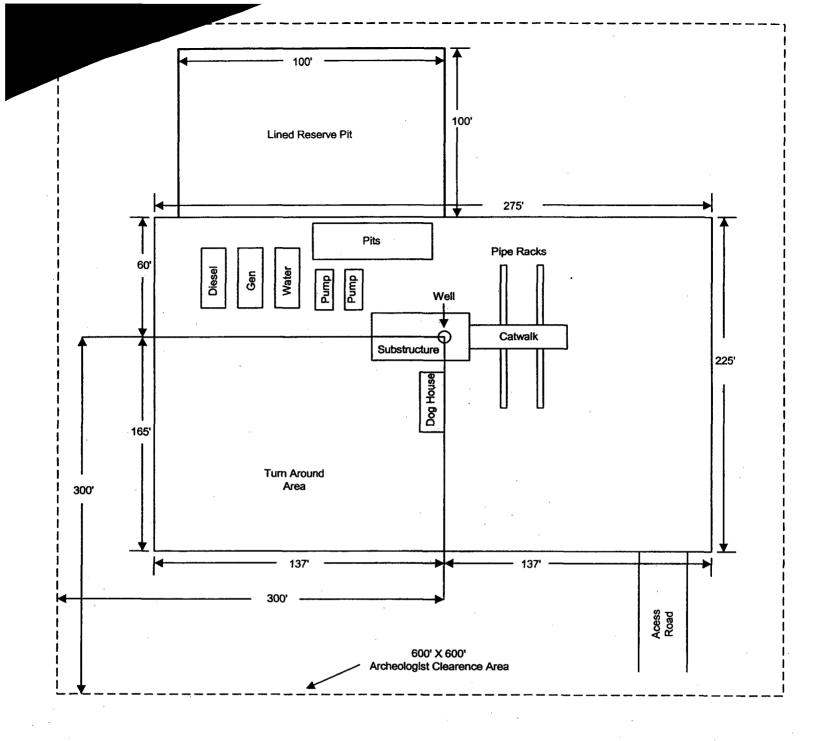
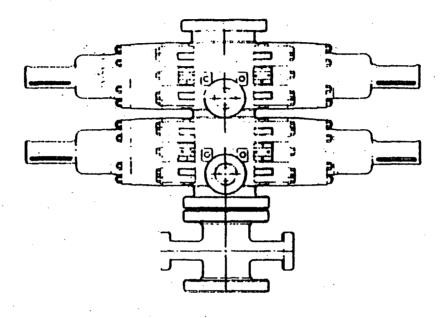


Exhibit C
Rig and Location Layout

OT PREMENTION EQUIPMENT



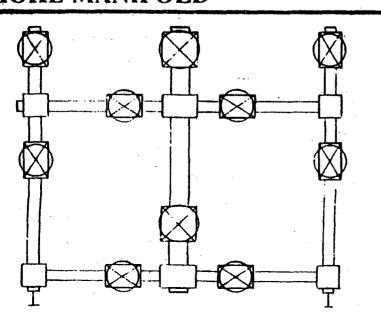
BOP Stack

- I Rucker Shaffer "B" double ram 10" - 3000 psi WP

Closing Unit

- Hydril model 80 three station accumulator
- Controls located in accumulator house and on rig floor

CHOKE MANIFOLD



900 Series, 3000 psi WP

Exhibit D



January 27, 2005

BLM - Carisbad Field Office 620 E. Greene St. Carisbad, NM 88220

Attention: Mr. Joe Lara

Re: Teledyne 12 Federal #1 Weil 990' FSL and 990' FWL Section 12, T23S-R28E Eddy County, New Mexico

Dear Joe:

As you know, Intrepid Potash - NM, LLC is the surface owner of the aforementioned land description. Intrepid Potash has no objections to the proposed location of the Teledyne 12 Federal #1 Well.

Please call me at (505-234-3814) if you have any questions or concerns regarding this well.

Sincerely,

Thomas A. McGuire Senior Mine Engineer

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RB OPERATING COMPANY Mr. Robert Ebeler (Senior Landman) 777 Main St. Suite 800 Fort Worth, TX 76102