13-37

OCD Hobbs
HOBBS OCD

Form 3160-3
(February 2005)

JUL 23 2013

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

5. Lease Serial No.
NM 14492

6. If Indian, Allotee or Tribe Name
---

7. If Unit or CA Agreement, Name and No.

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
8105 JV-P Mesa #3H (30530)

2. Name of Operator
BTA Oil Producers, LLC (260297)

9. API Well No.
30-025- 41290

3a. Address 104 S. Pecos
Midland, TX 79701

3b. Phone No. (include area code)
(432) 682-3753

10. Field and Pool, or Exploratory
Jennings; Upper Bone Spring Shale (97838)

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface 265' FSL & 205' FWL SWSW Sec. 1 Unit M
At proposed prod. zone 330' FNL & 430' FWL NWNW Sec. 1 Unit D

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 1, T26S-R32E

14. Distance in miles and direction from nearest town or post office*
25 miles west from Jal, NM

12. County or Parish
Lea

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 205'	16. No. of acres in lease 1960	17. Spacing Unit dedicated to this well 160 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 11314' BHL to BHL	19. Proposed Depth 14,119' MD 9,540' TVD	20. BLM/BIA Bond No. on file NM1195 NMB000849
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3280' GL	22. Approximate date work will start* 06/15/2013	23. Estimated duration 45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature Pam Inskeep	Name (Printed/Typed) Pam Inskeep	Date 01/02/2013
Title Regulatory Administrator		

Approved by (Signature) /s/George MacDonell	Name (Printed/Typed)	Date JUL 16 2013
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. APPROVAL FOR TWO YEARS

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)

Carlsbad Controlled Water Basin

OPERATOR WILL BE USING A CLOSED-LOOP SYSTEM

Approval Subject to General Requirements & Special Stipulations Attached

KA 07/26/13

SEE ATTACHED FOR CONDITIONS OF APPROVAL

JUL 31 2013

APPLICATION FOR DRILLING

HOBBS OCD

JUL 2 3 2013

RECEIVED

BTA OIL PRODUCERS, LLC
8105 JV-P Mesa #3H
265' FSL & 205' FWL
UL –M–, Sec. 1, T26S, R32E Surface
330' FNL & 430' FWL
UL –D–, Sec. 1, T26S, R32E Bottom
Lea County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, BTA Oil Producers submits the following 10 items for pertinent information in accordance with BLM requirements:

1. Geologic surface formation is Quaternary.

2. Top of geologic markers & depths of anticipated fresh water, oil or gas:

Anhydrite	708'	
Top of Salt	1,348'	
Base of Salt	4,438'	
Delaware	4,698'	Oil
Bell Canyon	4,738'	Oil
Cherry Canyon	5,958'	Oil
Brushy Canyon	7,248'	Oil
Bone Spring	8,913'	Oil
Avalon Target 1	9,618'	Oil

No other formations are expected to yield oil, gas, or fresh water in measurable volumes. Depth to fresh water, in this area, is 175'. The surface fresh water sands will be protected by setting 13-3/8" csg at 750' cemented back to surface.

All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished to the BLM, Division of Minerals. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.

3. Proposed Casing and Cementing Program:

Hole Size	OD Casing	Setting From	Depth to	Weight	Grade	Joint
17-1/2"	13-3/8"	0'	~~750'~~ 780'	54.5#	J55	STC
12-1/4"	9-5/8"	0'	4,650'	40#	J55	LTC
8-3/4"	5-1/2"	0'	14,119'	20#	P110	LTC

See COA

Minimum Casing Design Factors:

Collapse	1.125
Burst	1.0
Tensile	1.8

Depending upon availability at the time that the casing is run, equivalent weights and grades may be substituted. All casing will be new.

4. Cement Program:

I. Surface Casing:
- Lead: 500 sx ExtendaCem-CZ.
  - Yield 1.68 ft^3/sk
- Tail: 340 sx HalCem – C with 2% Calcium Chloride.
  - Yield 1.35 ft^3/sk
- Cement circulated to surface. 100% Excess.

II. Intermediate Casing:
- Lead: 1,320 sx EconoCem – HCL with 5 lbm/sk Kol-Seal and 5% Salt.
  - Yield 1.89 ft^3/sk
- Tail: 250 sx HalCem – C.
  - Yield 1.33 ft^3/sk
- Cement circulated to surface. 100% excess.

III. Production Casing:
- Lead: 1,730 sx VersaCem – PBSH2 with 0.5% Halad (R)-344, 0.3% CFR-3, 1 lbm/sk Salt, 0.4% HR-601.
  - Yield 1.61 ft^3/sk
- Tail: 485 sx SoluCem – H with 0.25 lbm/sk D-Air 5000, 0.75% HR-601.
  - Yield 2.63 ft^3/sk.
  - Weight 15.0 lbm/gal.
  - Top of Tail Cement: 9,574' MD.
- Cement calculated to tie back 500 ft into intermediate casing. 50% Excess above KOP, 10% excess TD to KOP.

Note: All casing strings will be pressure tested to 0.22 psi/ft. of setting depth or 1500 psi (whichever is greater) after cementing and prior to drillout.

5. Pressure Control Equipment:

The 13-5/8" blowout preventer equipment (BOP) shown in Exhibit A will consist of a (5M system) double ram type (5000 psi WP) preventor and a bag-type (Hydril) preventor (5000 psi WP). Will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4-½" drill pipe rams on bottom. The BOP's will be installed on the 13-3/8" casing and utilized continuously until TD is reached. All BOP's and associated equipment will be tested as per BLM drilling Operations Order No. 2.

Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5000 psi WP rating.

6. Mud Program:

Surface to 780': 8.5 to 8.8 ppg fresh water spud with 35 to 45 sec/1000 cc viscosity.

See COA

750' to 4,650': Brine water. Will use lime for pH control in range 10 to 11. Will sweep hole with gel slugs as required for hole cleaning. Mud wt = 10 ppg.

4,650' to TD: 8.6 to 9.2 ppg controlled brine water. Will use lime for pH control in range of 10 to 11. Will sweep hole with salt gel slugs and polymer sweeps as required for hole cleaning.

Will use paper for seepage losses. Will adjust fluid weight as required using brine water.

7. Auxiliary Equipment:

a) Upper Kelly cock valve with handle available.
b) Lower Kelly cock valve with handle available.
c) Safety valves and subs to fit all drill string connections in use.
d) Monitoring of mud system will be mechanical.

8. Testing Logging and Coring Program:

Drill Stem Tests will be based on geological sample shows.

Open electrical logging program will be:

i. KOP (9,035') to Surface: Gamma Ray/Compensated Neutron
ii. KOP to Intermediate Csg: Dual Laterolog, Gamma Ray, Compensated Neutron, Density.
iii. No coring program is planned.
iv. Tie in GR and Gyro from KOP (9,035') to Surface. GR from 9,035' to TD. 10' samples from surface csg to TD.

Specific intervals will be targeted based on evaluation and geological sample shows.

9. Potential Hazards:

No abnormal pressures or temperatures are anticipated. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 4,130 psi. Estimated BHT: 170° F. No H_2S is anticipated to be encountered.

10. Anticipated Starting Date and Duration of Operations:

Anticipated start date will be as soon as possible after BLM approval and as soon as a rig is available. Move in operations and drilling is expected to take 45 days.

Note: BLM onsite was conducted on 10/12/2012. Trishia Bad Bear was the representative present for the consultation meeting with the surveying crew, BTA Drilling Manager Nick Eaton, and Consultant Vern Dyer.

BTA Oil Producers

Lea County, NM
Sec 1, T26S, R32E
8105 JV-P Mesa #3H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

14 November, 2012

DDC
The DIRECTIONAL DRILLING COMPANY

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well 8105 JV-P Mesa
Company:	BTA Oil Producers	**TVD Reference:**	WELL @ 3280.0usft (Original Well Elev)
Project:	Lea County, NM	**MD Reference:**	WELL @ 3280.0usft (Original Well Elev)
Site:	Sec 1, T26S, R32E	**North Reference:**	Grid
Well:	8105 JV-P Mesa	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

HOBBS OCD

JUL 2 3 2013

RECEIVED

Project	Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 1, T26S, R32E				
Site Position:		**Northing:**	388,292.70 usft	**Latitude:**	32° 3' 56.206 N
From:	Map	**Easting:**	716,059.40 usft	**Longitude:**	103° 38' 9.118 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.37 °

Well	8105 JV-P Mesa					
Well Position	**+N/-S**	0.0 usft	**Northing:**	388,292.70 usft	**Latitude:**	32° 3' 56.206 N
	+E/-W	0.0 usft	**Easting:**	716,059.40 usft	**Longitude:**	103° 38' 9.118 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,280.0 usft

Wellbore Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	11/14/2012	7.43	59.99	48,373

Design Design #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	1.14	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,035.0	0.00	0.00	9,035.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,576.7	65.00	30.00	9,467.7	238.7	137.8	12.00	12.00	0.00	30.00	
9,905.5	90.00	358.42	9,540.1	544.3	210.7	12.00	7.60	-9.60	-55.49	
14,119.7	90.00	358.42	9,540.0	4,756.9	94.5	0.00	0.00	0.00	0.00	PBHL 8105 JV-P M

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well 8105 JV-P Mesa
Company:	BTA Oil Producers	**TVD Reference:**	WELL @ 3280.0usft (Original Well Elev)
Project:	Lea County, NM	**MD Reference:**	WELL @ 3280.0usft (Original Well Elev)
Site:	Sec 1, T26S, R32E	**North Reference:**	Grid
Well:	8105 JV-P Mesa	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Build 12° / 100									
9,035.0	0.00	0.00	9,035.0	0.0	0.0	0.0	0.00	0.00	0.00
9,050.0	1.80	30.00	9,050.0	0.2	0.1	0.2	12.00	12.00	0.00
9,075.0	4.80	30.00	9,075.0	1.5	0.8	1.5	12.00	12.00	0.00
9,100.0	7.80	30.00	9,099.8	3.8	2.2	3.9	12.00	12.00	0.00
9,125.0	10.80	30.00	9,124.5	7.3	4.2	7.4	12.00	12.00	0.00
9,150.0	13.80	30.00	9,148.9	11.9	6.9	12.1	12.00	12.00	0.00
9,175.0	16.80	30.00	9,173.0	17.6	10.2	17.8	12.00	12.00	0.00
9,200.0	19.80	30.00	9,196.7	24.4	14.1	24.7	12.00	12.00	0.00
9,225.0	22.80	30.00	9,220.0	32.3	18.7	32.7	12.00	12.00	0.00
9,250.0	25.80	30.00	9,242.8	41.2	23.8	41.7	12.00	12.00	0.00
9,275.0	28.80	30.00	9,265.0	51.1	29.5	51.7	12.00	12.00	0.00
9,300.0	31.80	30.00	9,286.6	62.1	35.8	62.8	12.00	12.00	0.00
9,325.0	34.80	30.00	9,307.5	74.0	42.7	74.8	12.00	12.00	0.00
9,350.0	37.80	30.00	9,327.6	86.8	50.1	87.7	12.00	12.00	0.00
9,375.0	40.80	30.00	9,347.0	100.5	58.0	101.6	12.00	12.00	0.00
9,400.0	43.80	30.00	9,365.5	115.1	66.4	116.3	12.00	12.00	0.00
9,425.0	46.80	30.00	9,383.1	130.4	75.3	131.9	12.00	12.00	0.00
9,450.0	49.80	30.00	9,399.7	146.6	84.6	148.3	12.00	12.00	0.00
9,475.0	52.80	30.00	9,415.3	163.5	94.4	165.3	12.00	12.00	0.00
9,500.0	55.80	30.00	9,429.9	181.1	104.5	183.1	12.00	12.00	0.00
9,525.0	58.80	30.00	9,443.4	199.3	115.1	201.5	12.00	12.00	0.00
9,550.0	61.80	30.00	9,455.8	218.1	125.9	220.6	12.00	12.00	0.00
Build & Turn 12° / 100									
9,576.7	65.00	30.00	9,467.7	238.7	137.8	241.4	12.00	12.00	0.00
9,600.0	66.61	27.49	9,477.3	257.4	148.1	260.3	12.00	6.89	-10.77
9,625.0	68.37	24.86	9,486.9	278.1	158.3	281.2	12.00	7.06	-10.50
9,650.0	70.18	22.30	9,495.7	299.6	167.6	302.8	12.00	7.22	-10.25
9,675.0	72.02	19.80	9,503.8	321.6	176.1	325.1	12.00	7.37	-10.01
9,700.0	73.89	17.34	9,511.1	344.3	183.7	347.9	12.00	7.49	-9.81
9,725.0	75.79	14.94	9,517.7	367.5	190.4	371.2	12.00	7.60	-9.62
9,750.0	77.72	12.57	9,523.4	391.1	196.2	394.9	12.00	7.70	-9.46
9,775.0	79.66	10.24	9,528.3	415.1	201.0	419.0	12.00	7.78	-9.32
9,800.0	81.62	7.94	9,532.4	439.5	204.9	443.5	12.00	7.84	-9.21
9,825.0	83.59	5.66	9,535.6	464.1	207.9	468.1	12.00	7.89	-9.11
9,850.0	85.58	3.40	9,538.0	488.9	209.8	493.0	12.00	7.93	-9.04
9,875.0	87.57	1.15	9,539.4	513.8	210.8	517.9	12.00	7.96	-8.99
9,900.0	89.56	358.91	9,540.1	538.8	210.8	542.9	12.00	7.98	-8.97
EOC @ 90° Inc / 358.42° Azm / 9540' TVD									
9,905.5	90.00	358.42	9,540.1	544.3	210.7	548.4	12.00	7.98	-8.96
10,000.0	90.00	358.42	9,540.1	638.8	208.1	642.8	0.00	0.00	0.00
10,100.0	90.00	358.42	9,540.1	738.7	205.3	742.7	0.00	0.00	0.00
10,200.0	90.00	358.42	9,540.1	838.7	202.6	842.6	0.00	0.00	0.00
10,300.0	90.00	358.42	9,540.1	938.7	199.8	942.5	0.00	0.00	0.00
10,400.0	90.00	358.42	9,540.1	1,038.6	197.1	1,042.3	0.00	0.00	0.00
10,500.0	90.00	358.42	9,540.1	1,138.6	194.3	1,142.2	0.00	0.00	0.00
10,600.0	90.00	358.42	9,540.1	1,238.6	191.6	1,242.1	0.00	0.00	0.00
10,700.0	90.00	358.42	9,540.1	1,338.5	188.8	1,342.0	0.00	0.00	0.00
10,800.0	90.00	358.42	9,540.1	1,438.5	186.0	1,441.9	0.00	0.00	0.00
10,900.0	90.00	358.42	9,540.1	1,538.4	183.3	1,541.8	0.00	0.00	0.00
11,000.0	90.00	358.42	9,540.1	1,638.4	180.5	1,641.7	0.00	0.00	0.00
11,100.0	90.00	358.42	9,540.1	1,738.4	177.8	1,741.6	0.00	0.00	0.00
11,200.0	90.00	358.42	9,540.1	1,838.3	175.0	1,841.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well 8105 JV-P Mesa
Company:	BTA Oil Producers	**TVD Reference:**	WELL @ 3280.0usft (Original Well Elev)
Project:	Lea County, NM	**MD Reference:**	WELL @ 3280.0usft (Original Well Elev)
Site:	Sec 1, T26S, R32E	**North Reference:**	Grid
Well:	8105 JV-P Mesa	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

HOBBS OCD
JUL 23 2013
RECEIVED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,300.0	90.00	358.42	9,540.1	1,938.3	172.3	1,941.3	0.00	0.00	0.00
11,400.0	90.00	358.42	9,540.1	2,038.3	169.5	2,041.2	0.00	0.00	0.00
11,500.0	90.00	358.42	9,540.1	2,138.2	166.7	2,141.1	0.00	0.00	0.00
11,600.0	90.00	358.42	9,540.1	2,238.2	164.0	2,241.0	0.00	0.00	0.00
11,700.0	90.00	358.42	9,540.1	2,338.1	161.2	2,340.9	0.00	0.00	0.00
11,800.0	90.00	358.42	9,540.1	2,438.1	158.5	2,440.8	0.00	0.00	0.00
11,900.0	90.00	358.42	9,540.0	2,538.1	155.7	2,540.7	0.00	0.00	0.00
12,000.0	90.00	358.42	9,540.0	2,638.0	153.0	2,640.5	0.00	0.00	0.00
12,100.0	90.00	358.42	9,540.0	2,738.0	150.2	2,740.4	0.00	0.00	0.00
12,200.0	90.00	358.42	9,540.0	2,838.0	147.4	2,840.3	0.00	0.00	0.00
12,300.0	90.00	358.42	9,540.0	2,937.9	144.7	2,940.2	0.00	0.00	0.00
12,400.0	90.00	358.42	9,540.0	3,037.9	141.9	3,040.1	0.00	0.00	0.00
12,500.0	90.00	358.42	9,540.0	3,137.8	139.2	3,140.0	0.00	0.00	0.00
12,600.0	90.00	358.42	9,540.0	3,237.8	136.4	3,239.9	0.00	0.00	0.00
12,700.0	90.00	358.42	9,540.0	3,337.8	133.6	3,339.8	0.00	0.00	0.00
12,800.0	90.00	358.42	9,540.0	3,437.7	130.9	3,439.6	0.00	0.00	0.00
12,900.0	90.00	358.42	9,540.0	3,537.7	128.1	3,539.5	0.00	0.00	0.00
13,000.0	90.00	358.42	9,540.0	3,637.6	125.4	3,639.4	0.00	0.00	0.00
13,100.0	90.00	358.42	9,540.0	3,737.6	122.6	3,739.3	0.00	0.00	0.00
13,200.0	90.00	358.42	9,540.0	3,837.6	119.9	3,839.2	0.00	0.00	0.00
13,300.0	90.00	358.42	9,540.0	3,937.5	117.1	3,939.1	0.00	0.00	0.00
13,400.0	90.00	358.42	9,540.0	4,037.5	114.3	4,039.0	0.00	0.00	0.00
13,500.0	90.00	358.42	9,540.0	4,137.5	111.6	4,138.9	0.00	0.00	0.00
13,600.0	90.00	358.42	9,540.0	4,237.4	108.8	4,238.7	0.00	0.00	0.00
13,700.0	90.00	358.42	9,540.0	4,337.4	106.1	4,338.6	0.00	0.00	0.00
13,800.0	90.00	358.42	9,540.0	4,437.3	103.3	4,438.5	0.00	0.00	0.00
13,900.0	90.00	358.42	9,540.0	4,537.3	100.6	4,538.4	0.00	0.00	0.00
14,000.0	90.00	358.42	9,540.0	4,637.3	97.8	4,638.3	0.00	0.00	0.00
14,100.0	90.00	358.42	9,540.0	4,737.2	95.0	4,738.2	0.00	0.00	0.00
14,119.7	90.00	358.42	9,540.0	4,756.9	94.5	4,757.8	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL 8105 JV-P MES - plan hits target center - Point	0.00	0.00	9,540.0	4,756.9	94.5	393,049.60	716,153.90	32° 4' 43.273 N	103° 38' 7.662 W

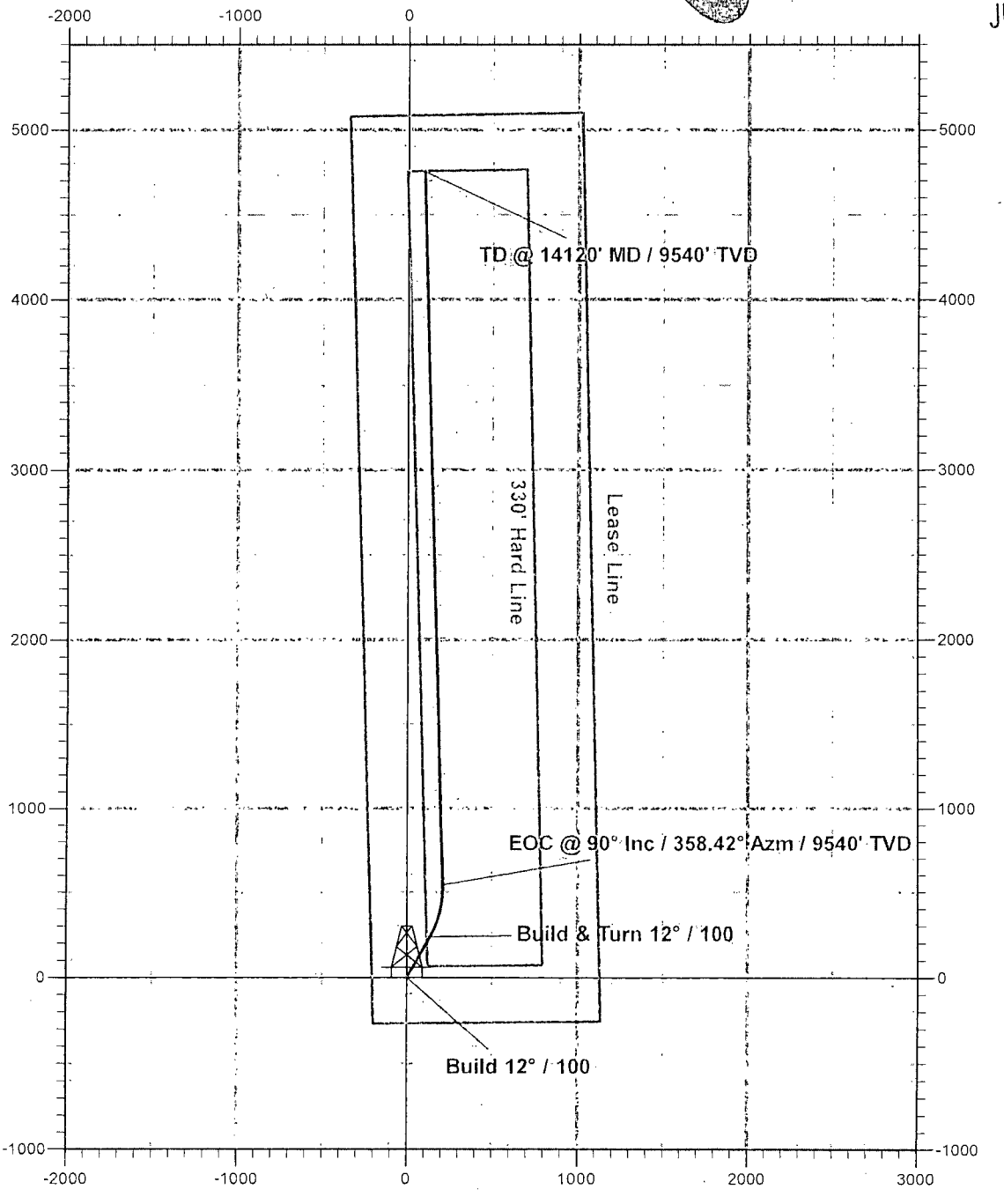
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
9,035.0	9,035.0	0.0	0.0	Build 12° / 100
9,576.7	9,467.7	238.7	137.8	Build & Turn 12° / 100
9,905.5	9,540.1	544.3	210.7	EOC @ 90° Inc / 358.42° Azm / 9540' TVD
14,119.7	9,540.0	4,756.9	94.5	TD @ 14120' MD / 9540' TVD

BTA Oil Producers, LLC

Lea County, NM
8105 JV-P Mesa #3H
Quote 120862
Design #1

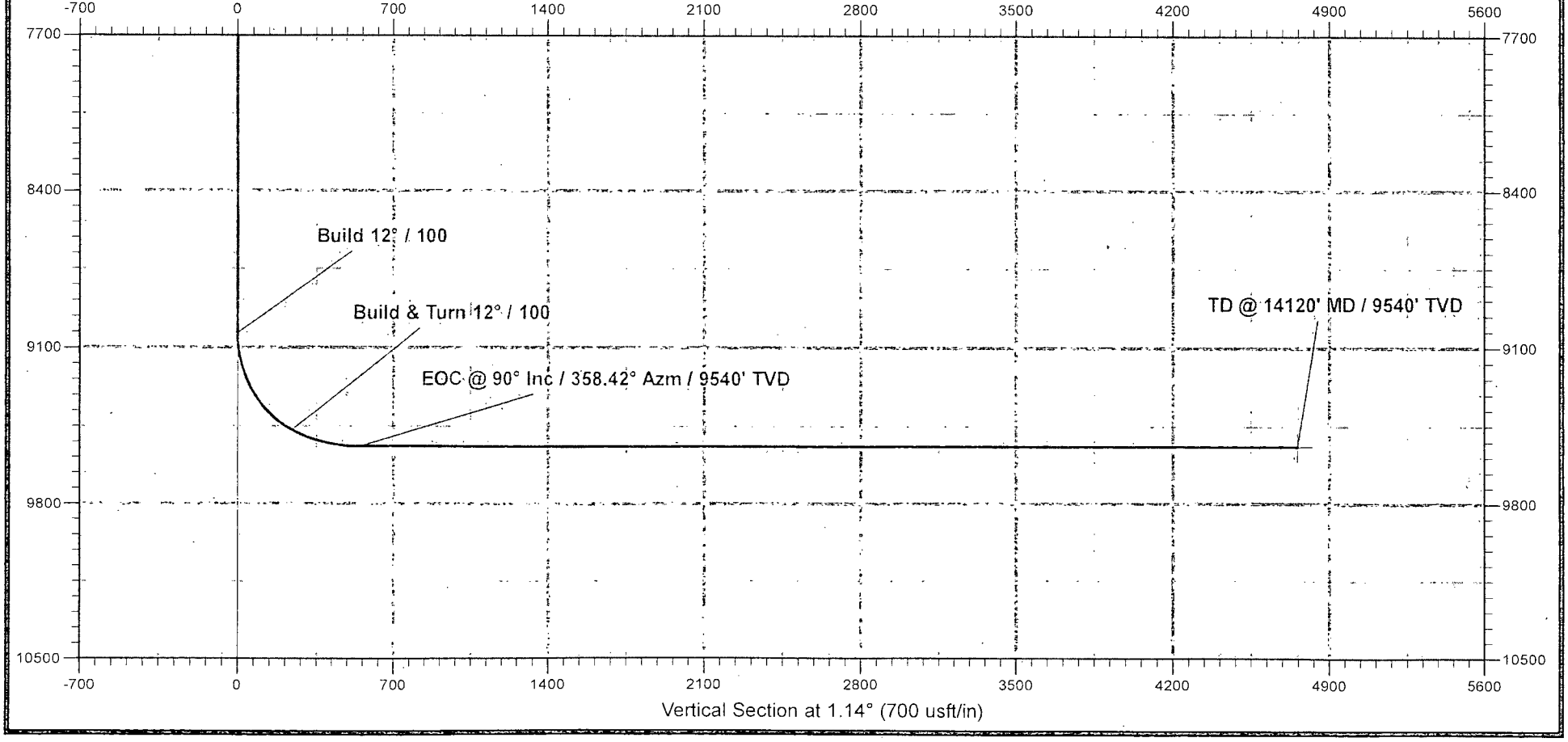
The DIRECTIONAL DRILLING COMPANY



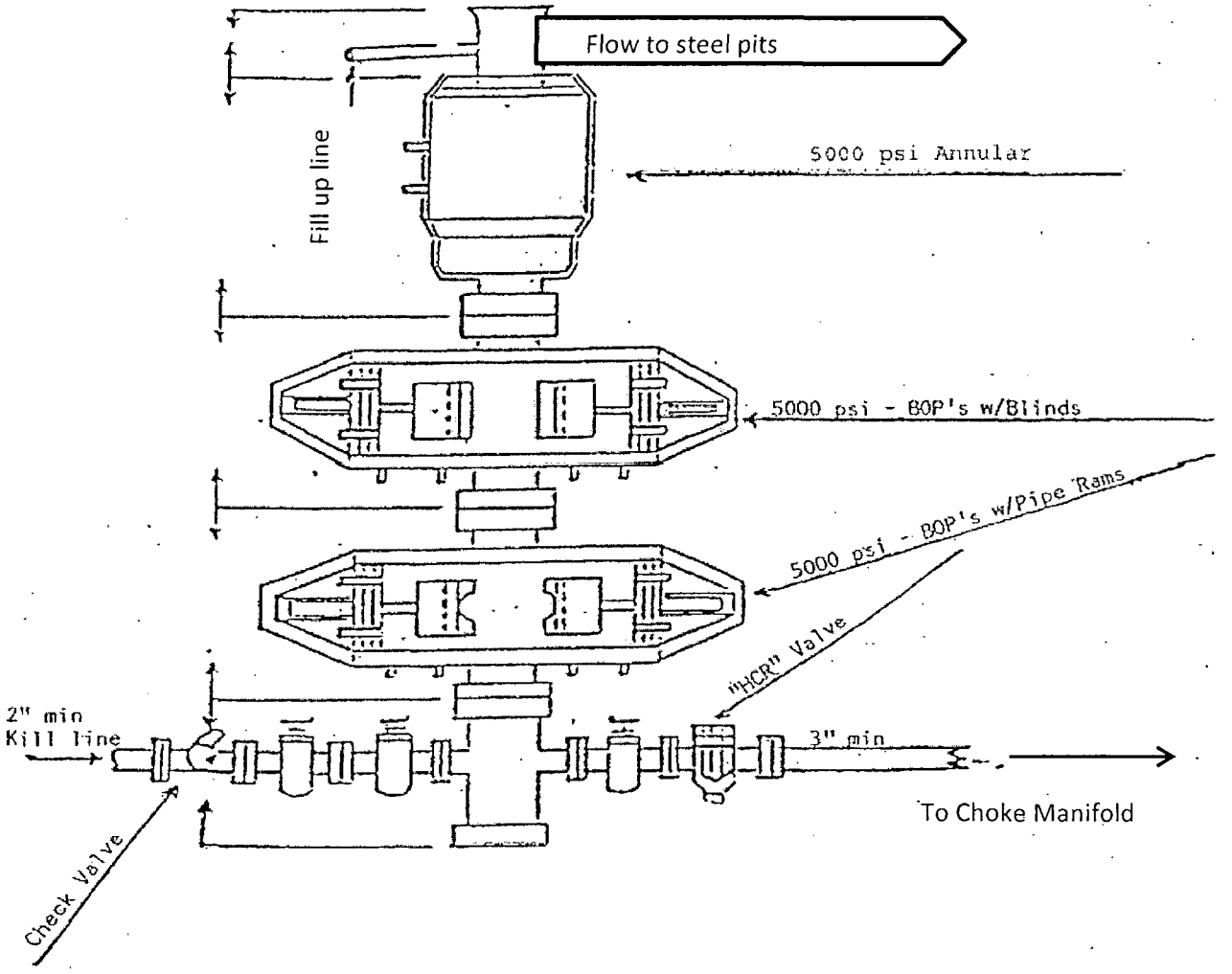
BTA Oil Producers, LLC

Lea County, NM
8105 JV-P Mesa #3H
Quote 120862
Design #1

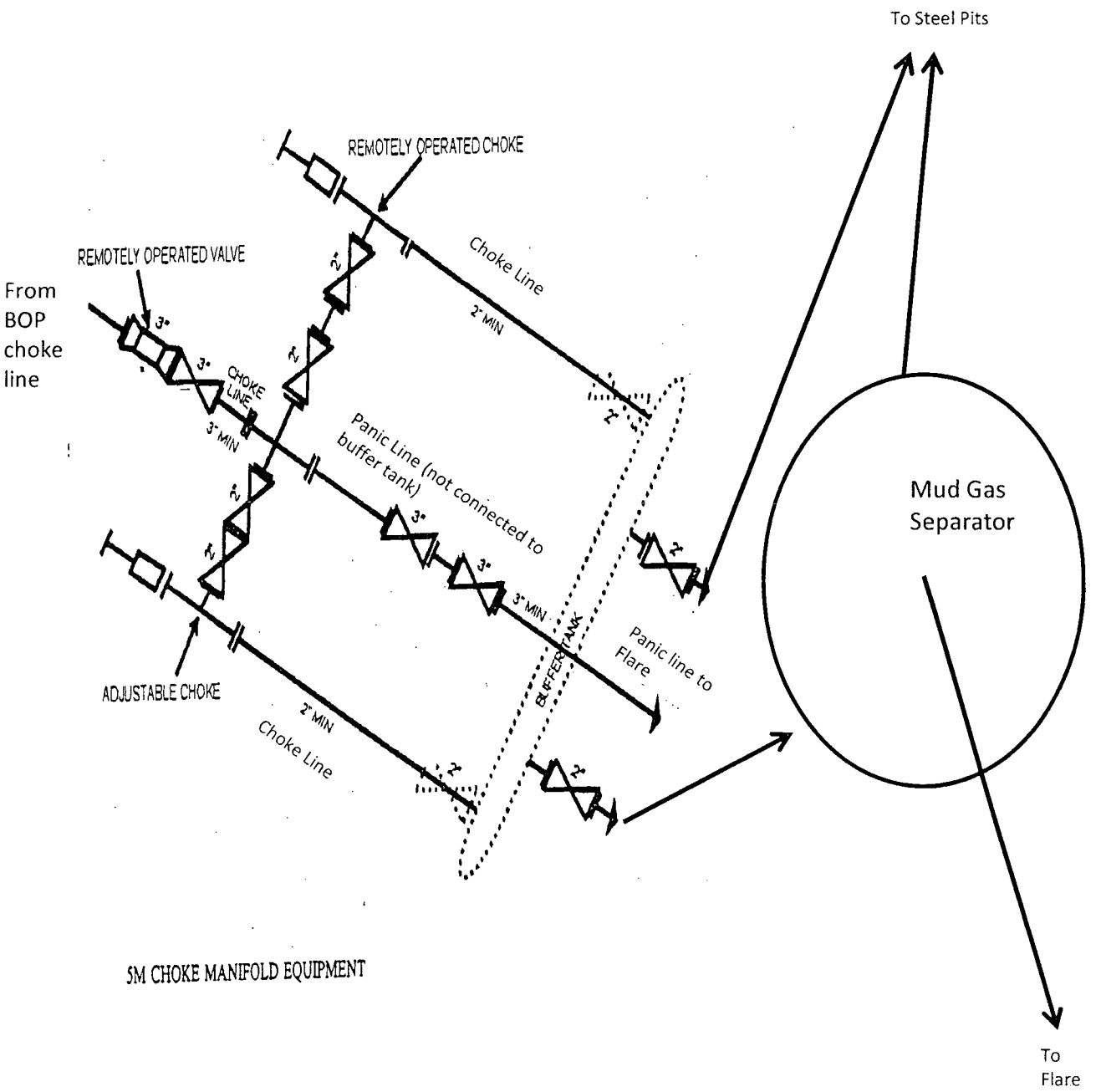
The DIRECTIONAL DRILLING COMPANY



13-5/8" 5,000 PSI BOP



BTA Oil Producers LLC
8105 JV-P Mesa #3-H
265' FSL 205' FWL
1, 26S, 32E
Lea County, NM



5M CHOKE MANIFOLD EQUIPMENT

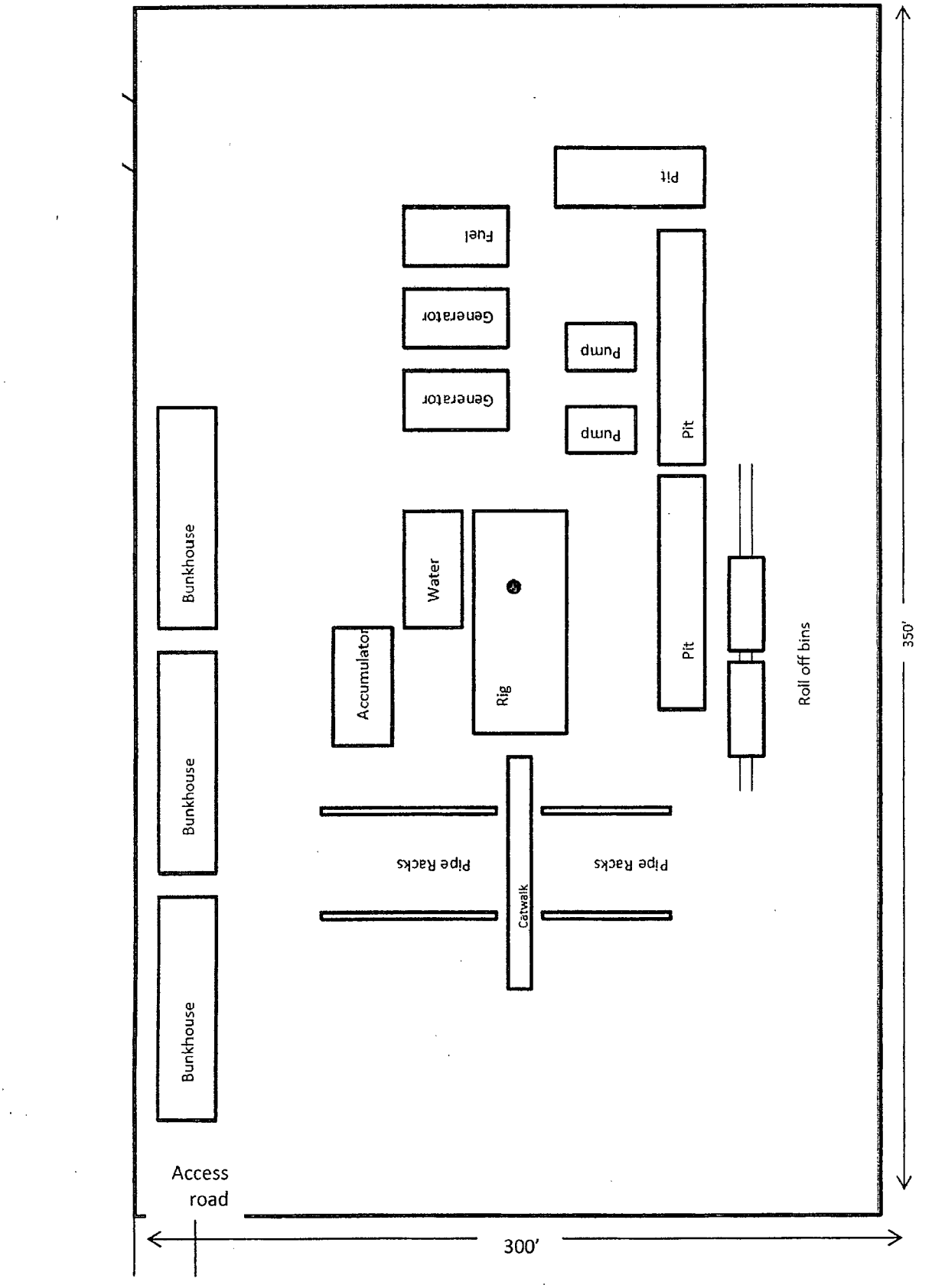
BTA Oil Producers LLC
8105 JV-P Mesa #3-H
265' FSL 205' FWL
1, 26S, 32E
Lea County, NM

HOBBS OCD

JUL 23 2013

RECEIVED

BTA Oil Producers LLC
8105 JV-P Mesa #3-H
265' FSL 205' FWL
1, 26S, 32E
Lea County, NM

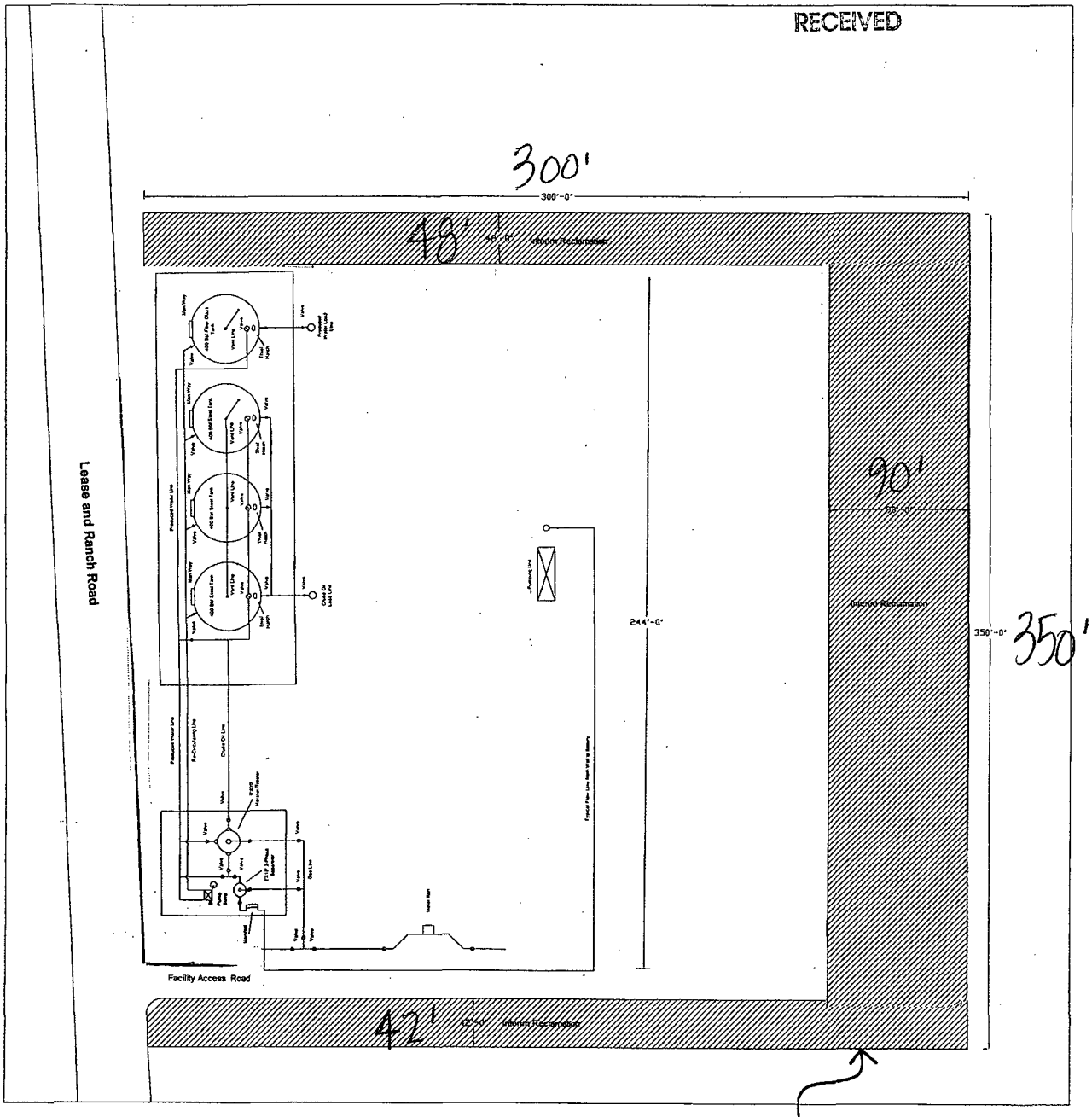


Proposed Production Facility Layout

HOBBS OCD

JUL 2 3 2013

RECEIVED



Interim Reclamation

BTA	BTA Oil Producers, LLC (Midland, Texas)	
	BTA JV-P 8105, Mesa #3H Facility Drawing	
Revision	Unit Letter "M", Section 1, Township 26 North, Range 32 East Lea County, New Mexico	
0 06/14/2013	Scale: None Drawn by: jab	Date: 06.14.2013 Checked by: jab

NOT DRAWN TO SCALE