H15-07-181

# OCD-ARTESIA

R-111-POTASH

Form 3160-3 (April 2004)  UNITED STATES	Sr	lit Est	ate	OMB Expires	I APPROVED No 1004-0137 March 31, 2007	
DEPARTMENT OF THE I	Dictory	IIIL LOC	u L	5 Lease Senal No • <b>E5229</b>		
BUREAU OF LAND MAN  APPLICATION FOR PERMIT TO		REENTER	e	6 If Indian, Allote	e or Tribe Na	me
la. Type of work.  DRILL  REENTE	er	, , ,	,	7 If Unit or CA Ag	reement, Name	e and No
lb. Type of Well. Oil Well Gas Well Other	<b>√</b> Sinj	gle Zone Multip	ole Zone	8 Lease Name and James Ranc		I .
2. Name of Operator BOPCO, L. P.				9 API Well No.	- 27(	૪ <b>૯</b> વ :
3a. Address P. O. Box 2760 Midland, TX 79702	3b Phone No. 432-683	(include area code) -2277	,	10 Field and Pool, o Quahada Ri	r Exploratory .	<i>)</i> ·
At surface SENW, UL E, 2428' FNL, 1340' FW At proposed prod. zone 1830 FNL,660 FWL,Sec 35-R22S-R.	VL, Lat N32.3	49161, Long W103		11. Sec., T. R. M or Sec 36, T22S		
14 Distance in miles and direction from nearest town or post office* 20 miles Northeast of Malaga, NM		^		12 County or Parish Eddy County	`	3 State NM
location to nearest property or lease line, ft. (Also to nearest drig unit line, if any)	16 No. of act	res in lease	17 Spacin	g Unit dedicated to this		,
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft  305'	19 Proposed 13,296' M	Depth (TVD)	}	BIA Bond No. on file		. ,
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 3311' GL	22 Approxim	ate date work will star 03/01/2009	rt*	23. Estimated durati	on	
,	24. Attach	nments				. ,
The following, completed in accordance with the requirements of Onshore	e Oil and Gas O	order No 1, shall be a	ttached to the	s form:		
Well plat certified by a registered surveyor.     A Drilling Plan		4 Bond to cover the Item 20 above).	ne operation	ns unless covered by a	n existing bon	d on file (see
A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).	Lands, the	<ol> <li>Operator certific</li> <li>Such other site authorized offic</li> </ol>	specific info	ormation and/or plans	as may be requ	ured by the
25 Signature Dilders		Printed/Typed) Innette Childers			Date 2-9	-09
Title  • Administrative Assistant						
Approved by (Signalus) Linda S. C. Rundell	Name (	Printed Typed Inda	S. C.	Rundell	Date APR	1 7 200
Title STATE DIRECTOR	Office	NM ST	TATE	OFFICE		
Application approval does not warrant or certify that the applicant holds conduct operations thereon.  Conditions of approval if any, are attached	s legal or equita			ject lease which would FOR TWC		

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

CARLSBAD CONTROLLED WATER BASIN

Conditions of approval, if any, are attached.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS **ATTACHED** 

<sup>\*(</sup>Instructions on page 2)

DISTRICT I ~1625 N. French Dr., Hobbs, NM 88240

DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV 1220 St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

# OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

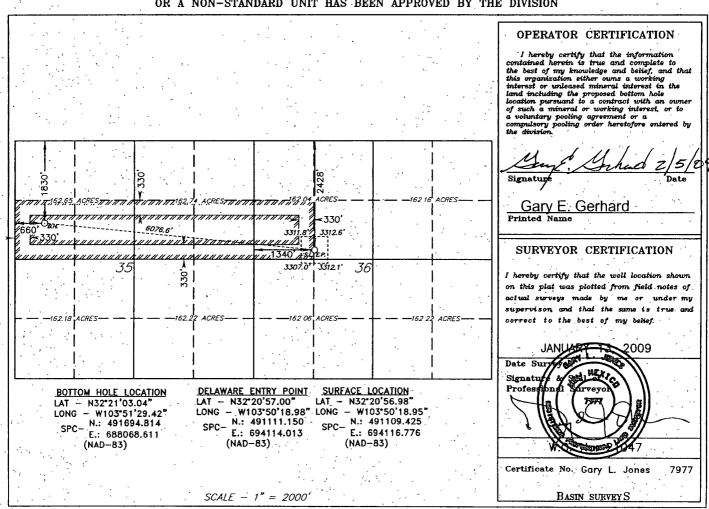
1220 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API	Number		Pool Code Pool Name			<del></del>			
30-0	015-	37064	504	143	Qual	nada Ridge, SI	E (Delaware)		
Property (				٠.,	Property Na		-	Well No	
3064	107	, J.,		J.	AMES RANCH	UNIT	•	10	)5H
ogrid ne 260737			, '		Operator Nau BOPCO, L	,		Eleva 331	
, , ;	• * , ,	, .			Surface Loc	ation		-	r
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	36 ·	22 S	30 E		2428	NORTH	1340	WEST	EDDY
			Bottom	Hole Lo	eation If Diff	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
· E	35	22 S	30 E	<b>.</b>	1830	NORTH	660	WEST	EDDY
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code O	rder No.	,	· ·		
200	. N	*	•	,			•	· · · · · · · · · · · · · · · · · · ·	4, 1

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



# BOPCO, L.P.

P. O. Box 2760 Midland, Texas 79702

432-683-2277

FAX-432-687-0329

December 17, 2008

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

To Whom It May Concern

BOPCO, L P respectfully request exception to the Prairie Chicken timing restrictions for this location - 1830' FNL, 660' FWL, of Section 36, T22S, R30E, Eddy County, New Mexico

Sincerely,

Gary E Gerhard Drilling Engineer

GEG/mac

OCD-ARTESIA

Form 3160-5 (April 2004)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OM B No 1004-0137 Expires March 31, 2007

#### BUREAU OF LAND MANAGEMENT 5 Lease Senal No. NM 02952 B E5229 SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an If Indian, Allottee or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. 7 If Unit or CA/Agreement, Name and/or No SUBMIT IN TRIPLICATE- Other instructions on reverse side. Öil Well 🗆 ☐ Gas Well □□ 8 Well Name and No. James Ranch Unit #105H 2 Name of Operator BOPCO, L. P. 9. API Well No 3a Address 3b Phone No (include area code) P. O. Box 2760 Midland, TX 79702 432-683-2277 10 Field and Pool, or Exploratory Area Quahada Ridge SE (Delaware) 4 Location of Well (Footage, Sec., T., R., M., or Survey Description) 11 County or Parish, State Surface: SENW, UL E, 2428' FNL, 1340' FWL, Lat N32.349161, Long W103.838597, Sec 36, T22S, R BHL: 1830 FNL,660 FWL,Sec 35-R22S-R30E,Lat N32.35084,Long W103.85817, Sec 36, T22S, R30 **Eddy County, NM** 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE. REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Water Shut-Off Production (Start/Resume) Deepen Notice of Intent Well Integrity Alter Casing Reclamation Fracture Treat Other Revised Rig Plat Casing Repair New Construction Recomplete Subsequent Report Change Plans Plug and Abandon \_\_ Temporarily Abandon Final Abandonment Notice \_\_\_ Plug Back Convert to Injection Water Disposal

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof
If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones
Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA Required subsequent reports shall be filed within 30 days
following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once
testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has
determined that the site is ready for final inspection.)

BOPCO L.P. requests approval of the attached rig plat.

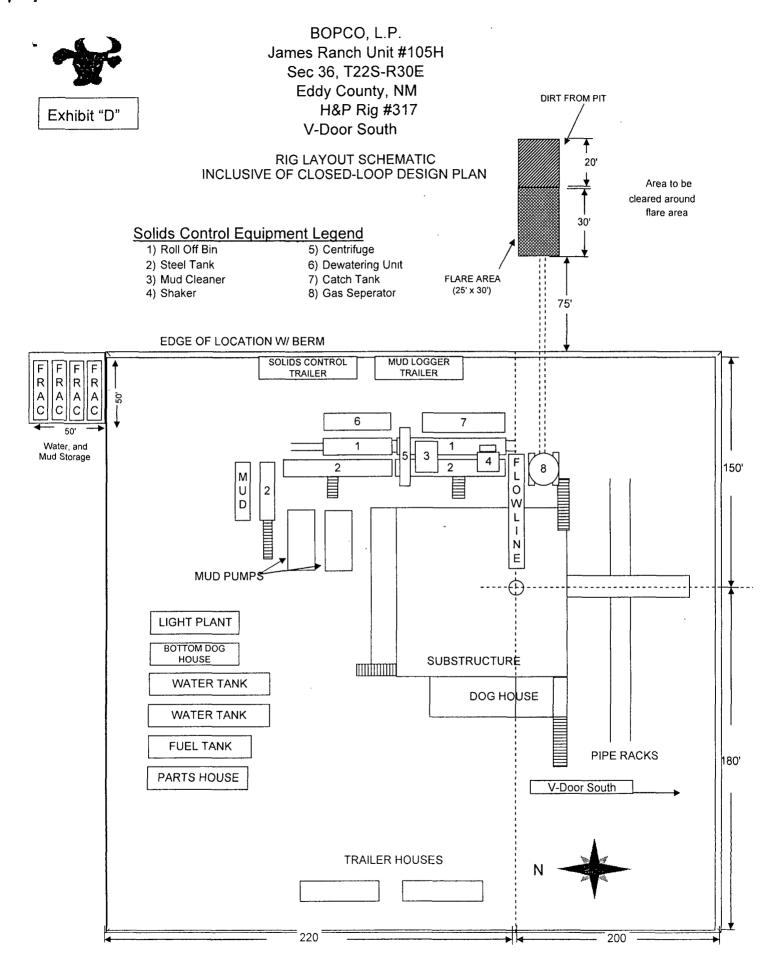
The original APD contained the wrong rig "footprint", BOPCO is now using H&P Rig #317. The new rig plat is 90' X 45' larger.

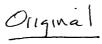
BOPCO L.P. Bond # on file: COB00050

OR CLL. 04/09/09

14 I hereby certify that the foregoing is true and correct Name (Printed/Typed)						
Annette Childers	Title Regulatory Clerk					
Signature Connette Childre	Date 3-30-09					
THIS SPACE FOR FEDERAL OR STATE OFFICE USE						
Approved by   Is/ Don Peterson Conditions of approval, if any, are attached   Approval of this notice does not warrant	Title AFM Date APR 2 0 2009					
Conditions of approval, if any, are attached. Approval of this notice does not warrantertify that the applicant holds legal or equitable title to those rights in the subject learning which would entitle the applicant to conduct operations thereon.						

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





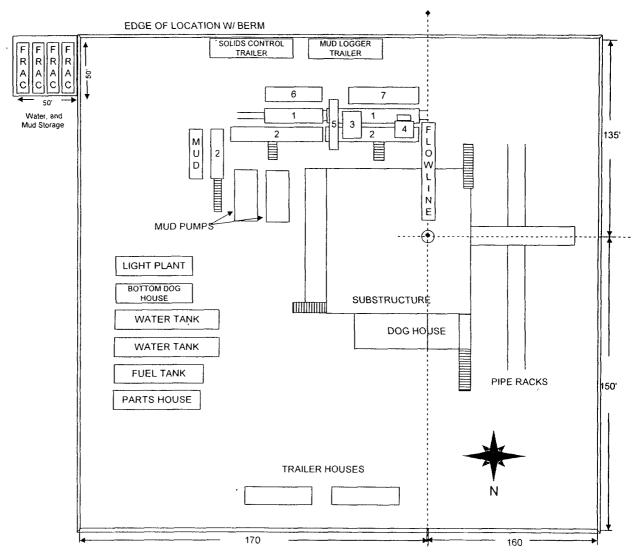


BOPCO, LP James Ranch Unit #105H Section 36, T-22-S, R-30-E Eddy County, NM

# RIG LAYOUT SCHEMATIC INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

# Solids Control Equipment Legend

- 1) Roll Off Bin
- 2) Steel Tank
- 3) Mud Cleaner
- 4) Shaker
- 5) Centrifuge
- 6) Dewatering Unit
- 7) Catch Tank
- 8) Gas Seperator



Wtd-ser/Dnliling/DrillingDiagrams/Drilling Rig Layout - Closed Loop JRU #105HRes Pit Exibit D w-ng

# OCD-ARTESIA

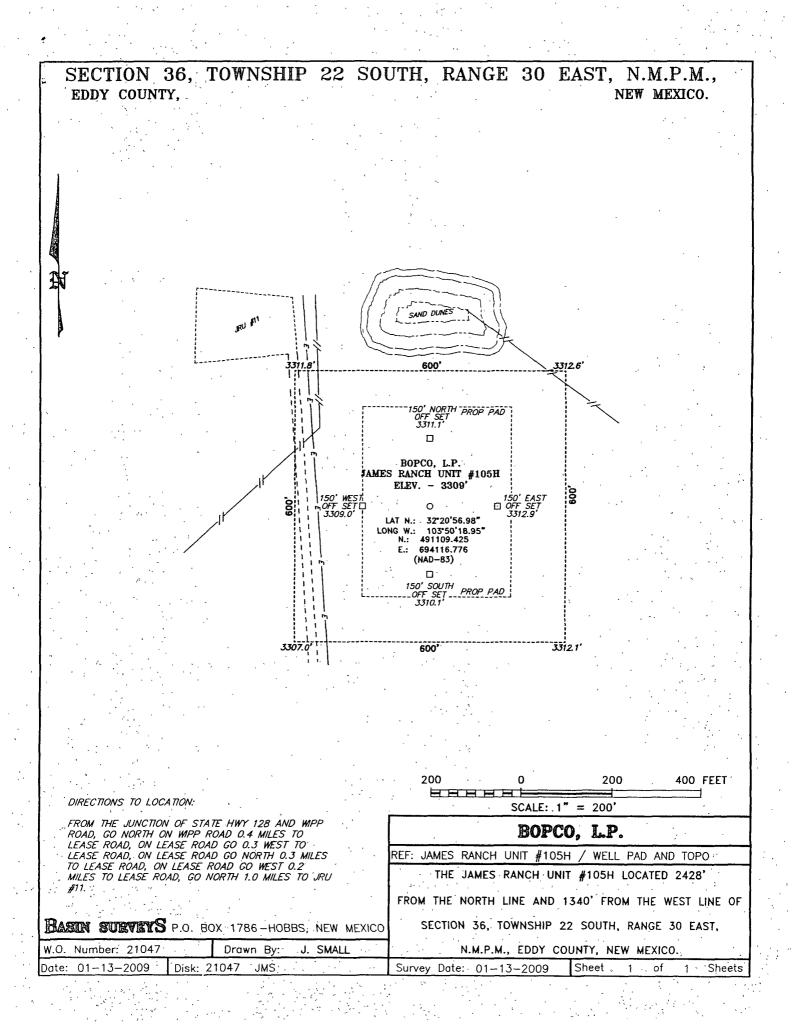
Form 3160-5 (April 2004)

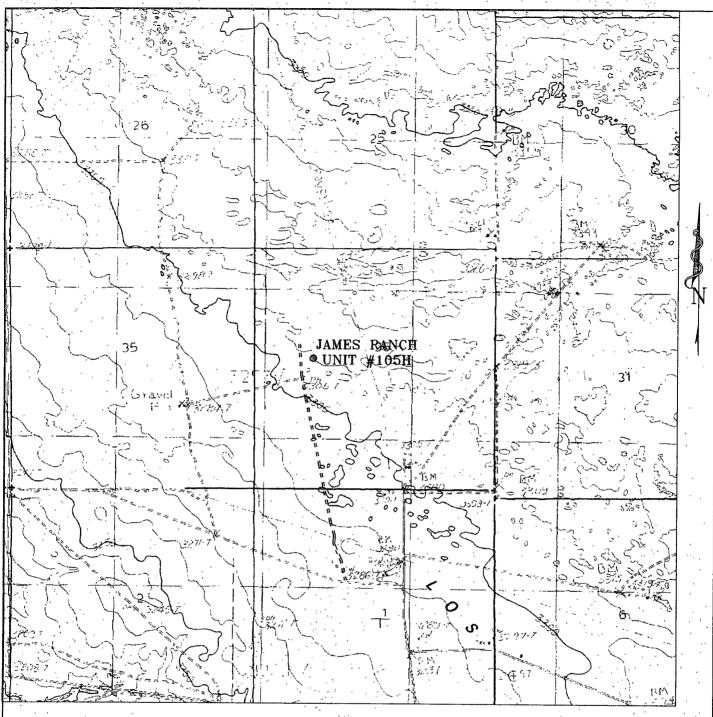
# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### FORM APPROVED OM B No 1004-0137 Expires March 31, 2007

OUNDRY NOTIONS AND DEPORTS ON WELLS	5 Lease Senal No E5229
SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.	6 If Indian, Allottee or Tribe Name
SUBMIT IN TRIPLICATE- Other instructions on reverse side.	7 If Unit or CA/Agreement, Name and/or No
I. Type of Well ☐ ☐ Gas Well ☐ ☐ Other	Well Name and No.
2. Name of Operator BOPCO, L. P.	James Ranch Unit #105H
3a Address 3b Phone No (include area code)	9 API Well No.
P. O. Box 2760 Midland, TX 79702 432-683-2277	10 Field and Pool, or Exploratory Area
4 Location of Well (Footage, Sec., T., R., M., or Survey Description)	Quahada Ridge SE (Delaware)  11. County or Parish, State
"SENW, UL F, 2428' FNL, 1340' FWL, Sec 36, T22S, R30E, Mer NMP Lat N32.34972, Lon W103.83996	Eddy Co., NM
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, RI	EPORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
Acidize Deepen Production (Star Reclamation  Subsequent Report Change Plans Plug and Abandon Temporanly Ab	Well Integrity  Other  Move Surface
Final Abandonment Notice Convert to Injection Plug and Abandon Temporarily Ab	DCP pipeline
testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamate determined that the site is ready for final inspection.)  On 1/15/09 BOPCO, L.P. submitted a sundry and plat moving the surface location. The plat did not Delaware penetration point marked. The attached plat now includes this information. The surface location is orthodox.	of have the producing area, project area, and
	*.*
	• ,
14 I hereby certify that the foregoing is true and correct Name (Printed/Typed)	;
Annette Childers Title Administrative Assista	ent ·
Signature monette hilders Date 2-5-09	
THIS SPACE FOR FEDERAL OR STATE OFFICE	USE
Approved by /s/ Linda S. C. Rundell STATE DIRECT	FOR Date APR 1 7 2009
, ii o i o i o i o i o i o i o i o i o i	STATE OFFICE
which would entitle the applicant to conduct operations thereon	DIMIL OFFICE

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.





JAMES RANCH UNIT #105H 2428' FNL and 1340' FWL Section 36, Township 22 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.

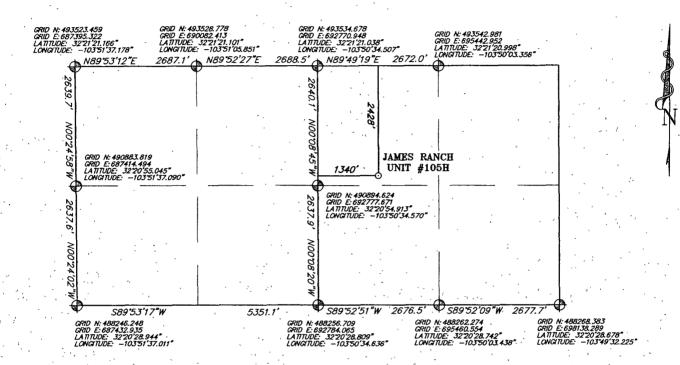


P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 — Office (575) 392-2206 — Fax basinsurveys.com

W O. Number JMS 21047	
Survey Date 01-13-2009	
Scale 1" = 2000'	
Date 101-14-2009	on was also are a

BOPCO, L.P.

SECTION 36, TOWNSHIP 22 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



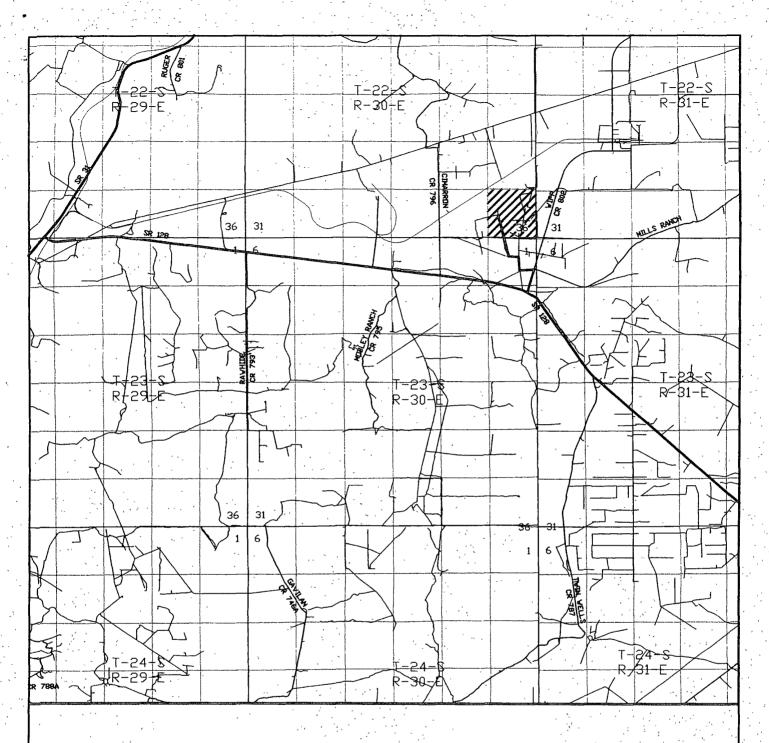
JAMES RANCH UNIT #105H 2428' FNL and 1340' FWL Section 36, Township 22 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

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BOPCO, L.P.



JAMES RANCH UNIT #105H 2428' FNL and 1340' FWL Section 36, Township 22 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



R.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393—7316 — Office (575) 392—2206 — Fax basinsurveys.com

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Sec.		COS O		COLUMN TO N	CONTRACTOR OF THE	Williams	or Management	ereits:	CHEST	out of	CAUTE S	2
	ote)	11	01	-14	-2009	9			٠,٠	*		,

BOPCO, L.P.

Form 3160-5 (April 2004)

3a Address

2 Name of Operator BOPCO, L. P.

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OM B No 1004-0137 Expires March 31, 200

1	xpires	Ma	ırch	31,	200
Lease Senal	No				

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

Gas Well□□

E5229 If Indian, Allottee or Tribe Name 7 If Unit or CA/Agreement, Name and/or No 8 Well Name and No. James Ranch Unit #105H API Well No 10 Field and Pool, or Exploratory Area Quahada Ridge SE (Delaware) 11 County or Parish, State Eddy Co., NM Water Shut-Off

P. O. Box 2760 Midland, TX 79702 4 Location of Well (Footage, Sec., T., R., M., or Survey Description) SENW, UL F, 2428' FNL, 1340' FWL, Sec 36, T22S, R30E, Mer NMP Lat N32.34972, Lon W103.83996 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Production (Start/Resume) Deepen Notice of Intent Alter Casing Well Integrity Fracture Treat Reclamation ✓ Other Change flowline Casing Repair New Construction Recomplete Subsequent Report Change Plans Plug and Abandon route Temporarily Abandon Final Abandonment Notice Convert to Injection Plug Back

3b Phone No (include area code)

432-683-2277

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection )

BOPCO, L.P. respectfully requests approval to change the route of the flowline serving James Ranch Unit #105H to avoid known archeological sites. A map showing the new route is attached.

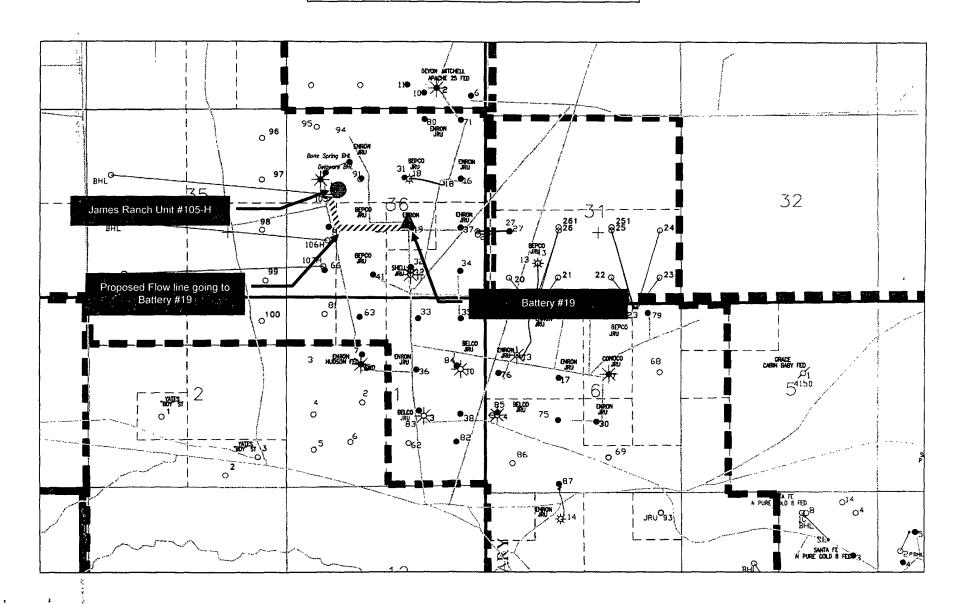
14 Thereby certify that the foregoing is true and correct Name (Printed/Typed)						
Annette Childers T	itle Administrative Assistant					
Signatur anette Unilders 1	nate 1-15-09					
THIS SPACE FOR FEDERAL OR STATE OFFICE USE						
/s/ Linda S. C. Rundell	STIATE DIRECTOR Date APR 1 7 2009					
Conditions of approval, if any, are attached. Approval of this notice does not warrant of 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.						

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(Instructions on page 2)

# James Ranch Unit #105H Exhibit "E"





The surface casing is to be set into the Rustler below all fresh water sands.

Production casing will be cemented using Halliburton acid soluble cement system in lateral hole and Tuned Lite in the vertical section. A DV tool will be set at approximately 6000' with cement circulated to the surface.

Drilling procedure, BOP diagram, and anticipated tops attached.

This well is located within the R-111 Potash area.

The surface location is unorthodox and bottom hole location is orthodox.

BOPCO, L.P., at P. O. Box 2760, Midland, TX, 79702 is a subsidiary of BOPCO, L.P., 201 Mail Street, Ft. Worth, TX, 76102. Bond No. COB000050 (Nationwide).

# EIGHT POINT DRILLING PROGRAM BOPCO, L.P.

# NAME OF WELL: James Ranch Unit #105H

LEGAL DESCRIPTION - SURFACE: 2428' FNL, 1340' FWL, Section 36, T22S, R30E, Eddy County, NM.

BHL: 1830' FNL, 660' FWL, Section 35, T22S, R30E, Eddy County, New Mexico.

# POINT 1: ESTIMATED FORMATION TOPS

(See No. 2 Below)

# POINT 2: WATER, OIL, GAS AND/OR MINERAL BEARING FORMATIONS

Anticipated Formation Tops: KB 3336' (estimated)

GL 3311'

			,	
	ESTIM	IATED ·		
	TOP F	ROM KB	ESTIMATED	
<u>FORMATION</u>	TVD	MD	SUB-SEA TOP	<b>BEARING</b>
T/Rustler	228'	, 228'	+ 3108'	Barren
B/Rustler	581'	581.	+ 2755'	Barren
T/Salt	693'	693'	+ 2643	Barren
B/Salt	3553'	3553'	- 217'	Barren
T/Lamar Lime	3797'	3797'	- 461'	Barren
T/Ramsey	3858'	3858'	- 522'	Oil/Gas
T/Lower Cherry Canyon	5947'	5947'	- 2611'	Oil/Gas
KOP (Kick Off Point)	6847'	, , . <sup>1</sup> 6847'	- 3511'	N/A
T/Brushy Canyon "U" Sand	7179	7212'	- 3843'	Oil/Gas
EOC Target	7324'	17604	- 3993'	Oil/Gas
TD (end of lateral)	7249'	. 13,196'	<b>-</b> 3913'	Oil/Gas
	The state of the s	*		

# **POINT 3: CASING PROGRAM**

TYPE	INTERVALS (MD)	Hole Size	PURPOSE CONDITION	<u> </u>
20"	0'- 60'	24"	Conductor Contractor D	Discretion
. 13-3/8", 48#, H-40, ST&C 🎺 💎 🦠	0' - 681'	17-1/2"	Surface New	
9-5/8", 36#, J-55, 8RD, LT&C	0' - 3315'	12-1/4"	Intermediate New	
9-5/8", 40#, J-55, LT&C	3315' – 3815'	12-1/4"	Intermediate New	
5-1/2", 17#, HCP-110, LT&C	0' - 6600'	8-3/4"	Production New	
5-1/2", 17#, HCP-110, Ultra Flush	J 6600'-13,196'	8-3/4"	Production New	

# CASING DESIGN SAFETY FACTORS:

TYPE	<b>NSION</b>	COLLAPSE	<u> </u>	BURST
13-3/8", 48#, H-40, ST&C	.10.67	2.34		2.82
9-5/8", 36#, J-55, LT&C	3.69	1.14	1 - 1 - 1	1.12
9-5/8", 40#, J-55, LT&C	30.26	id 1.30	)	1.16
5-1/2", 17#, HCP-110, LT&C	√3.33	2.07	*, *	3.16
5-1/2", 17#, HCP-110, Ultra Flush Jt	2.38	2.07	r 120 j	3,16 (

## **DESIGN CRITERIA AND CASING LOADING ASSUMPTIONS:**

# **SURFACE CASING**

Tension A 1.6 design factor utilizing the effects of buoyancy (9.2 ppg).

Collapse A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the

casing will be run (0.48 psi/ft). The effects of axial load on collapse will be considered.

Burst A 1.3 design factor with a surface pressure equal to the fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure a that depth. Backup

pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a 1.0 psi/ft gradient. The effects of

tension on burst will not be utilized.

# PROTECTIVE CASING

Tension A 1.6 design factor utilizing the effects of buoyancy (10 ppg).

Collapse A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the

casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.

In the case of development drilling, collapse design should be analyzed using internal evacuation equal to 1/3 the proposed total depth of the well. This criterion will be used when there is absolutely no potential of

the protective string being used as a production casing string.

Burst A 1.0 surface design factor and a 1.3 downhole design factor with a surface pressure equivalent to the

fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure at that depth. Back pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a

1.0 psi/ft gradient.

# PRODUCTION CASING

Tension A 1.6 design factor utilizing the effects of buoyancy (9.2 ppg).

Collapse A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the

casing will be run (0.48 psi/ft). The effects of axial load on collapse will be considered.

Burst A 1.25 design factor with anticipated maximum tubing pressure (3529 psig) on top of the maximum

anticipated packer fluid gradient. Backup on production strings will be formation pore pressure. The

effects of tension on burst will not be utilized.

# POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)

The blowout preventer equipment will be as shown in Diagram #2 and will consist of a double ram type preventer (3000 psi WP) and a bag type (Hydril) annular preventer (3000 psi WP). The same BOPE will be installed on the surface casinghead and on all subsequent casing strings. The BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. when installed on the surface casinghead will be hydro-tested to 200 psig & 1250 psig by independent tester. The BOPE when rigged up on the intermediate casing spool will be tested to 3000 psig by independent tester. In addition to the high pressure test, a low pressure (200 psig) test will be required.

# These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Fifteen days after a previous test
- d) As required by well conditions

A function test to insure that the preventers are operating correctly will be performed on each trip.

# **POINT 5: MUD PROGRAM**

DEPTH MUD TYPE	WEIGHT	_FV_	PV	YP.	FL	<u>Ph</u>
0' - 681' FW Spud Mud	8.5 - 9.2	38-70	NC	NC.	NC	10.0
681' - 3815' Brine Water	9.8 – 10.2	28-30	NC	NC	NC	9.5 - 10.5
3815' - 6847' FW/Gel	8.7 – 9.0	28-36	NC.	NC	NC	9.5 – 10.0
6847' - 13,196' FW/Gel/Starch	8.7 – 9.0	28-36	NC	NC	<20	9.5 - 10.0

NOTE: May increase vis for logging purposes only.

# **POINT 6: TECHNICAL STAGES OF OPERATION**

# A) TESTING

None anticipated.

# B) LOGGING

Run #1: PEX (GR-CNL/LDT-AIT) from as deep as possible in deviated hole (±7207') to 3815' with GR-CNL to surface.

Run #2: GR with MWD during drilling of build and horizontal portions of 8-3/4" hole.

Run #3: Drill pipe conveyed GR-NL-Density-Caliper from TD through curve:

# C) CONVENTIONAL CORING

None anticipated.

D)CEMENT		200-	COL		* *	
INTERVAL	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	PPG	FT <sup>3</sup> /SX
SURFACE: Lead: 0 – 381' (100% excess	298	381	EconoCem-HLC + 2.7 #/sk Salt	10.25	12.8	1.88
Circ to surface)		7.				
Tail: 381' – 681' (100% excess)	340	300	HalCem-C + 2% CaCl <sub>2</sub>	6.39	14.8	1.35
INTERMEDIATE: Lead: 0' – 3315' (100% excess Circ to surface)	730	3315	EconoCem-C + 0.125 pps Poly-e-flake	16.62	11.5	2.78
Tail: 3315' – 3815' (100% excess)	265	500	HalCem-C + 1% CaCl <sub>2</sub>	6.36	14.8	1.34
		,		,		
PRODUCTION: Stage 1: Lead: 6000' – 6597 (50% excess)	75	597	Halco Tuned Lite	14.4	9.7	3.13
Tail: 6597' – 13,196 (50% excess)	975	6599	Premium Plus – acid solu w/10#/sk silicate 50/50 ble 0.7% Haled 344, 0.3% HF 0.25% #/sk Air 3000	end	15	2.62
DV Tool @ 6,000"	<i>(a</i> )	-			is a	
Lead: 0' – 5900' (50% excess)	720	5900	EconoCem-C	14.3	11.9	2.46
Tail: 5900' – 6000' (50% excess)	30	100	Class "C" Neat	6.34	14.8	1.34
Sico	CEA					

BOPCO, L.P. plans to drill out the 9-5/8" intermediate casing with a 8-3/4" bit to a TVD of approximately 6847" at which point a directional hole will be kicked off and drilled at an azimuth of 275.53°, building angle at 12.00°/100' to a max angle of 90.82° at a TVD of 7324' (MD 7604'). This 90.82° angle will be maintained to a MD of 13,196' or TVD of 7249'.

DIRECTIONAL DRILLING

Normal pressures are anticipated throughout Delaware section. A BHP of 3166 psi (max) or MWE of 8.4 ppg is expected. Lost circulation may exist in the Delaware Section from 3815'-7177' TVD. No H<sub>2</sub>S is anticipated.

# **POINT 8: OTHER PERTINENT INFORMATION**

A) Auxiliary Equipment

Upper and lower kelly cocks. Full opening stab in valve on the rig floor.

B) Anticipated Starting Date

Upon approval

39 days drilling operations

14 days completion operations

Gary E. Gerhard

GEG/jdb February 09, 2009

# BEPCO, L.P.

Eddy Co., New Mexico (Nad 83) James Ranch Unit #105H James Ranch Unit #105H Lateral #1

Plan: Plan #1

# **Standard Planning Report**

15 January, 2009

Planning Report

Database:

EDM 2003 14 Server Db

BEPCO, L.P. Company:

Project Site:

Eddy Co , New Mexico (Nad 83)

James Ranch Unit #105H James Ranch Unit #105H

Well: Lateral #1 Wellbore: Plan #1 Design:

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Site James Ranch Unit #105H

KB Elev @ 3336.00ft (KB Elevation) KB Elev @ 3336.00ft (KB Elevation)

Gnd

Minimum Curvature

Project

Eddy Co., New Mexico (Nad 83)

Map System: Geo Datum: Map Zone:

US State Plane 1983

North American Datum 1983 New Mexico Eastern Zone

System Datum:

Site James Ranch Unit #105H

Site Position: From:

Мар

Northing: Easting:

491,109.42 ft 694,116 78 ft

Latitude:

Longitude:

32° 20' 56.968 N 103° 50' 18 964 W

Position Uncertainty:

0 00 ft Slot Radius:

Grid Convergence:

0.26 °

James Ranch Unit #105H

Well Position

+N/-S +E/-W 0 00 R 0 00 ft Northing: Easting:

491,109 42 ft 694,116.78 ft 3,336.00 ft

Latitude: Longitude: 32° 20' 56.968 N

**Position Uncertainty** 

0.00 ft

IGRF200510

Wellhead Elevation:

12/15/2008

Ground Level:

103° 50' 18.964 W 3,311.00 ft

Wellbore Lateral #1

Model Name

Declination

· (°)

Design

Audit Notes:

Version:

Tie On Depth: +E/-W

8.01

6,846.50 Direction

60.33

Vertical Section:

Depth From (TVD) (ft) 2.00

+N/-S (ft) 0 00

ः(ft) 0 00

· (1) 275 53

*	Plan Sections Measured Depth (ft)	Incilination	Azimiuth	Vertical Depth (ft)	+NV-S (m)	÷ΕĴ-₩ (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (7100m)	řřô	Tárget
	6,846 50	0 00	0 00	6,846 50	0 00	0 00	0 00	0 00	0.00	0 00	
	7,603 46	90.82	275 53	7,324 00	- 46 66	-482 13	12 00	12 00	0.00	275 53	
	13,196 08	90 82	275 53	7.244 00	585 39	-6 048 16	. 0.00	0.00	0.00	0.00	PRHL#1[JR] J#105H)

Planning Report

Database: Company: Project:

Site: Well: EDM 2003.14 Server Db

BEPCO, L.P.

Eddy Co , New Mexico (Nad 83)

James Ranch Unit #105H James Ranch Unit #105H

Wellbore: Lateral #1 Plan #1

Local Co-ordinate Reference:

\*--TVD Reference: MD Reference: North Reference: Survey Calculation Method: Site James Ranch Unit #105H KB Elev @ 3336 00ft (KB Elevation) KB Elev @ 3336.00ft (KB Elevation)

Gnd

P	lanned Survey		a i estati	40 40							
	Measured				Ve <i>r</i> tical			Vertical	Dogleg	Boild	Turn
1.3	Depth (ft)	Inchi	nation *)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (2/300ft)	Rate (°/100ft)	Rate (%100ft)
	6,846.50		0 00	0.00	6,846 50	0.00	0 00	0 00	0 00	0 00	0 00
	KOP Build 12.	.00°/1	00' :: TFC	D 275.53		•					
1	6,870 00		2.82	275.53	6,869.99	0 06	-0 58	0 58	12.00	12.00	0 00
1	6,900 00		6.42	275.53	6,899.89	0.29	-2 98	2 99	12.00	12.00	0.00
1	6,930.00	,	- 10 02	275 53	6,929 58	0.70	-7 25	7 28	12.00	12.00	0.00
}	6,960 00		13 62	275.53	6,958 93	1 29	-13 36	13.42	12 00	12.00	0 00
	6,990.00	,	17 22	275.53	6,987 85	2.06	-21 30	21.40	12.00	12.00	0 00
1	7,020.00	•	20 82	275.53	7,016 21	3 00	-31 03	31.17	12.00	12.00	0 00
1	7,050 00	-	24.42	275 53	7,043 90	4 11	-42 51 .	42.71	12.00	12 00	0 00
	7,080.00	٠,	28.02	275.53	7,070.81	5 39	-55 70 °	55.96	12 00	12 00	0.00
	7,110.00		31.61	275.53	7,096.83	6.83	70 54	70 87	12 00	12.00	0 00
	7,140.00	,	35 21	275.53	7,121.87	- 8 42	-86.98`	87 39	12.00	12.00	0.00
	7.170.00		38 81	275 53	7.145.82	10 16	-104 96	105.45	12.00	12.00	0.00

	TOWN THE		<b>"罗马立"</b> "	14. A.	Air)	(ii) 3 (4)	7 M	deannit)	Litonia	(3-ioōit)
	6,846.50	0 00	0.00	6,846 50	0.00	0 00	0 00	0 00	0 00	0 00
	KOP Build 12.00	0°/100' :: TFO 27	5.53	•						
	6,870 00	2.82	275.53	6,869.99	0.06	-0 58	0 58	12.00	12.00	0 00
	6,900 00	6.42	275.53	6,899.89	0.29	-2 98	2 99	12.00	12.00	0.00
	6,930.00	- 10 02	275 53	6,929 58	0.70	-7 25	7 28	12.00	12.00	0.00
	6,960 00	13 62	275.53	6,958 93	1 29	-13 36	13.42	12 00	12.00	0 00
	6,990.00	17 22	275.53	6,987 85	2.06	-21 30	21.40	12.00	12.00	0.00
	7,020.00	20 82	275.53	7,016 21	3 00	-31 03	31.17	12.00	12.00	0 00
	7,050 00	24.42	275 53	7,043 90	4 11	-42 51	42.71	12.00	12 00	0 00
	7,080,00	· 28.02	275.53	7,070.81	5 39	-55 70	55.9 <del>6</del>	12 00	12 00	0.00
	7,110.00	31.61	275.53	7,096.83	6.83	70 54	70 87	12 00	12.00	0 00
	7,140.00	35 21	275.53	7,121.87	- 8 42	-86.98`	87 39	12.00	12.00	0.00
	7,170.00	38 81	275 53	7,145.82	10 16	-104 96	105.45	12.00	12.00	0.00
	7,200.00	42 41	275.53	7,168 59	12 04	-124 39	124 97	12.00	12.00	0 00
•	7,207 38	43.30	275 53	7,174 00	12 52	-129 39	129.99	12 00	12.00	0 00
	Brushy Canyon	"U" Sand			•				-	
	7,230.00	46.01	275.53	7,190 09	14 05	-145.21	145.89	12 00	12 00 ~	0 00
	7,260 00	49.61	275.53	7,210 23	16 20	-167 33	168.11	12.00	12.00	0 00
	7,290 00	53.21	275 53	7,228 94	18 45	-190 67	191 56	12.00	12 00	0 00
	7,320.00	56 81	275 53	7,246 14	20.82	-215 13	216 13	12.00	12 00	- 0 00
	7,350 00	60.41	275 53	7,261 76	23.29	-240 61	241.74	12.00	12 00	0 00
	7,380.00	64 01	275 53	7,275 75	25 84	-267 02	268 27	12 00	12.00	0 00
	7,410.00	67.6 <b>1</b>	275.53	7,288 D4	28 48 <sup>-</sup>	-294 26	295.63	12.00	12 00	0.00
	7,440.00	71 21	275 53	7,298.59	31 19	-322 21	323 71	12.00	12.00	0.00
	7,470 00	74.81	275.53	7,307 36	33 95	-350 76	352.40	12.00	12 00	0 00
	7,500 00	78 41 -	275 53	7,314.30	36 76	-379 80	381 58	12 00	12 00	0 00
	7,530 00	82.01	275 53	7,319-41	39 61 "	-409 22	411 13	12.00	12.00	0.00
	7,560.00	85 61	275 53	7,322 64	42 48	-438 90	`440 95	12 00	12 00	0 00
•	7,590 00	· 89 20	275 53	7,324 00	45 37	-468 73	470 92	12.00	12 00	0.00
	7,603.46	90.82	275.53	7,324 00	46 66	-482 12	484.38	12 00	12.00	- 0 00
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	7,650 00	90,82	275 53	7,323 33	51 15	-528 44	530 91	0 00	, , 0 00 -	0 00 .
	7,680 00	90 82	275 53	7,322 90 .	54 04	-558 30	560 91	0 00	0.00	0 00
	7,710 00	90 82	275 53	7,322 47	56 93	-588 16	590 91	0 00	0 00	0 00
	7,740 00	90 82	275 53	7,322 05	59 82	-618 02	620 90	0 00	0.00	0.00 .
	7,770.00	90 82	275 53	7,321 62	62 71	-647 87	650 90	0 00	0 00	0 00
-	7,800.00	90 82	275 53	7,321 19	65 60	-677 73	680 90	0 00	0.00	0 00
	7,830.00	90 82	275,53	7,320.76	68 49	-707.59	710 89	0 00	0.00	0 00
	7,860 00	90 82	275 53	7,320 33	71 38	-737 44	740 89	0 00	0 00	0 00
	7,890 00	90 82	275 53	7,319 90 `	74 27	-767 30	770 89	0 00	0 00	0.00
	7,920 00	90 82	275 53	7,319 47 .	77 16	-797 16	88 008	0 00	0 00	- 0 00
	7,950 00	90 82	275 53	7,319 04	80 05	-827 02	830.88	0 00	0 00	0.00
	7,980 00	90 82	275 53	7.318 61	82 94	-856 87	860 88	0 00	0 00	0.00
	8,010 00	90 82	275 53	7,318 18	85 82	-886 73	890 88	0 00	0 00	0 00
-	8,040 00	90 82	275 53	7,317 75	88.71	-916 59	920 87	0 00	0 00	0 00
	8,070 00	90 82	275.53	7,317 33	91 60	-946 45	950 87	0.00	0.00	0 00
	8,100 00	90 82	275 53	7,316 90	94 49	-976 30	980 87	0.00	0 00	0 00
-	8,130 00	90 82	275 53	7,316 47	97 38	-1,006 16	1,010 86	. 0 00	0 00 -	. 0 00
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3	8,190 00	90 82	275 53	7,315 61	103 16	-1,065 88	1,070 86	. 0 00	0 00	0 00
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				** * ***						

Planning Report

Database: Company: Project:

Site:

EDM 2003 14 Server Db

BEPCO, L.P.

Eddy Co , New Mexico (Nad 83) James Ranch Unit #105H

James Ranch Unit #105H

Well: James Ra
Wellberg: Lateral #1
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site James Ranch Unit #105H KB Elev @ 3336.00ft (KB Elevation) KB Elev @ 3338 00ft (KB Elevation)

Grid

9,540 00       90 82       275 53       7,296 30       233 21       -2,409 46       2,420 72       0 00       0 00       0 00       0 00       9,570 00       90 82       275 53       7,295 87       236 10       -2,439 32       2,450 72       0 00       0 00       0 00       0 00       0 00       9,600 00       90 82       275 53       7,295 44       238 99       -2,469 17       2,480 71       0 00		Plan #1					÷			,
	d Survey	egist a		,		er jar	1,-			
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8,790.00  8,820.00  90.82  275.53  7,306.80  163.85  1,582.88  1,707.90  0.00  0.00  0.00  8,850.00  90.82  275.53  7,306.77  166.74  1,722.74  1,730.79  0.00  0.00  0.00  8,910.00  8,910.00  90.82  275.53  7,305.74  169.63  1,752.60  1,760.79  0.00  0.00  0.00  8,910.00  90.82  275.53  7,305.74  169.63  1,752.60  1,760.79  0.00  0.00  0.00  8,910.00  90.82  275.53  7,304.88  175.41  1,812.31  1,820.78  0.00  0.00  0.00  9,000.00  90.82  275.53  7,304.45  178.30  178.30  181.91  1,782.00  1,806.77  0.00  0.00  0.00  9,000.00  90.82  275.53  7,304.45  178.30  1,812.31  1,820.78  0.00  0.00  0.00  9,000.00  90.82  275.53  7,304.45  1,782.00  1,842.07  1,840.77  0.00  0.00  0.00  9,000.00  9,000.00  9,000.00  90.82  275.53  7,304.80  1,819.91  1,819.17  1,820.78  0.00  0.00  0.00  9,000.00  9,000.00  9,000.00  9,000.00  90.82  275.53  7,304.80  1,819.91  1,820.78  0.00  0.00  0.00  9,00						•				
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8,880.00         90.82         275.53         7,305.74         169.63         -1,752.60         1,760.79         0.00         0.00         0.00           8,910.00         90.82         275.53         7,305.31         172.52         -1,782.45         1,790.78         0.00         0.00         0.00           8,940.00         90.82         275.53         7,304.85         175.41         -1,812.31         1,820.78         0.00         0.00         0.00           8,970.00         90.82         275.53         7,304.45         178.30         -1,842.17         1,880.78         0.00         0.00         0.00           9,030.00         90.82         275.53         7,303.46         11,910.48         1,910.77         0.00         0.00         0.00           9,030.00         90.82         275.53         7,303.16         186.97         -1,931.74         1,940.77         0.00         0.00         0.00           9,090.00         90.82         275.53         7,302.73         18.89.66         -1,991.46         2,000.76         0.00         0.00         0.00           9,180.00         90.82         275.53         7,301.85         196.64         -2,021.31         2,000.76         0.00         0.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.00</td><td>٠, '</td></t<>									0.00	٠, '
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8,940.00       90 82       275 53       7,304 88       175 41       -1,812 31       1,820 78       0 00       0.00       0.00         9,000.00       90 82       275 53       7,304 45       178.30       -1,842 17       1,850,78       0 00       0.00       0.00         9,000.00       90.82       275 53       7,303 59       184 08       -1,901 88       1,910 77       0 00       0 00       0.00         9,090.00       90.82       275 53       7,303 59       184 08       -1,931 74       1,940,77       0 00       0 00       0.00         9,090.00       90.82       275 53       7,302 73       189 86       -1,931 74       1,940,77       0 00       0 00       0.00         9,120.00       90.82       275 53       7,301 81       192 75       -1,991 46       2,000.76       0 00       0.00       0.00         9,120.00       90.82       275 53       7,301 45       198 56       -2,261 17       2,060,76       0 00       0.00       0.00         9,210.00       90.82       275 53       7,301 45       198 53       -2,261 17       2,060,76       0 00       0.00       0.00         9,240.00       90.82       275 53       7,301 45					•					
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Planning Report

Database: Company: Project:

Site:

Well:

Wellbore:

Design:

EDM 2003.14 Server Db

BEPCO, L.P.

Eddy Co., New Mexico (Nad 83)

James Ranch Unit #105H

James Ranch Unit #105H

Lateral #1 Plan #1 Local Co-ordinate Reference: . .

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site James Ranch Unit #105H

KB Elev @ 3336.00ft (KB Elevation) KB Elev @ 3336.00ft (KB Elevation)

Grid

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No.   Part   P	lanned Survey		12- 2	,			`.			
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10,260.00   90.82   275.53   7,2265.00   302.56   3,126.04   3,140.65   0.00   0.00   0.00   0.00   10,320.00   90.82   275.53   7,225.14   308.34   3,155.75   3,200.64   0.00   0.00   0.00   0.00   10,350.00   90.82   275.53   7,284.71   311.23   -3,215.61   3,230.64   0.00   0.00   0.00   0.00   10,350.00   90.82   275.53   7,284.71   311.23   -3,215.61   3,220.63   0.00   0.00   0.00   0.00   10,410.00   90.82   275.53   7,284.73   317.01   3,275.32   3,290.63   0.00   0.00   0.00   10,440.00   90.82   275.53   7,283.85   317.01   3,275.32   3,290.63   0.00   0.00   0.00   10,440.00   90.82   275.53   7,282.94   319.90   3,305.16   3,320.63   0.00   0.00   0.00   10,450.00   90.82   275.53   7,282.97   325.68   3,384.90   3,350.62   0.00   0.00   0.00   10,500.00   90.82   275.53   7,282.71   325.68   3,384.90   3,350.62   0.00   0.00   0.00   10,500.00   90.82   275.53   7,282.71   333.34   333.46   3,350.62   0.00   0.00   0.00   10,500.00   90.82   275.53   7,281.71   331.45   3,446.41   3,440.61   0.00   0.00   0.00   10,500.00   90.82   275.53   7,281.71   331.45   3,442.61   3,440.61   0.00   0.00   0.00   10,500.00   90.82   275.53   7,280.62   340.13   335.64   3,450.65   0.00   0.00   0.00   10,500.00   90.82   275.53   7,280.62   340.13   350.64   3,440.61   0.00   0.00   0.00   10,500.00   90.82   275.53   7,280.62   340.13   3,544.64   3,440.61   0.00   0.00   0.00   10,500.00   90.82   275.53   7,280.62   340.13   3,544.64   3,530.61   0.00   0.00   0.00   10,740.00   90.82   275.53   7,280.62   340.13   3,544.04   3,550.61   0.00   0.00   0.00   10,740.00   90.82   275.53   7,279.95   345.91   3,543.90   3,590.60   0.00   0.00   0.00   10,740.00   90.82   275.53   7,279.95   345.91   3,573.90   3,590.60   0.00   0.00   0.00   10,740.00   90.82   275.53   7,279.87   348.80   3,633.61   3,590.60   0.00   0.00   0.00   10,740.00   90.82   275.53   7,279.87   348.80   3,633.64   3,550.65   0.00   0.00   0.00   10,740.00   90.82   275.53   7,277.65   36.25   3,733.45   3,633.37   3,890.57   0.00	10,200.00	*				-3,066.32	3,080 65	0.00		
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10,770.00 90 82 275 53 7,278 27 354 58 3,633.61 3,650.59 0.00 0.00 0.00 0.00 10,800.00 90 82 275 53 7,278 27 354 58 3,663.47 3,680.59 0.00 0.00 0.00 0.00 10,800.00 90 82 275 53 7,277.42 360.36 3,723 19 3,740.58 0.00 0.00 0.00 0.00 10,800.00 90 82 275 53 7,277.42 360.36 3,723 19 3,740.58 0.00 0.00 0.00 0.00 10,800.00 90 82 275 53 7,276.59 363.25 3,753.04 3,70.58 0.00 0.00 0.00 0.00 10,920.00 90 82 275 53 7,276.56 366.14 3,762.90 3,800.58 0.00 0.00 0.00 0.00 10,950.00 90 82 275 53 7,276.13 369.03 3,812.76 3,830.57 0.00 0.00 0.00 0.00 11,010.00 90 82 275 53 7,275.70 371.92 3,842.62 3,860.57 0.00 0.00 0.00 0.00 11,010.00 90 82 275 53 7,274.84 377.70 3,902.33 3,920.57 0.00 0.00 0.00 0.00 11,010.00 90 82 275 53 7,274.84 377.70 3,902.33 3,920.57 0.00 0.00 0.00 0.00 11,010.00 90 82 275 53 7,274.84 377.70 3,902.33 3,920.57 0.00 0.00 0.00 0.00 11,010.00 90.82 275 53 7,274.84 377.70 3,902.33 3,920.57 0.00 0.00 0.00 0.00 11,010.00 90.82 275 53 7,274.84 380.59 3,932.19 3,950.56 0.00 0.00 0.00 0.00 11,100.00 90.82 275 53 7,273.98 383.48 3,962.04 3,980.56 0.00 0.00 0.00 0.00 11,100.00 90.82 275 53 7,273.98 383.48 3,962.04 3,980.56 0.00 0.00 0.00 0.00 11,100.00 90.82 275 53 7,273.12 389.26 4,021.76 4,040.55 0.00 0.00 0.00 0.00 11,120.00 90.82 275 53 7,273.12 389.26 4,021.76 4,040.55 0.00 0.00 0.00 0.00 11,120.00 90.82 275 53 7,273.12 389.26 4,021.76 4,040.55 0.00 0.00 0.00 0.00 11,120.00 90.82 275 53 7,273.12 389.26 4,021.76 4,040.55 0.00 0.00 0.00 0.00 11,120.00 90.82 275 53 7,273.12 389.26 4,021.76 4,051.62 4,070.55 0.00 0.00 0.00 0.00 0.00 0.00 0.0	. 10,710 00	90 82	275.53	7,279 56	- 345 91	-3,573 90	3,590 60	0.00	0.00	. 0 00 ,
10,800.00       90 82       275 53       7,278.27       354 58       3,663.47       3,680 59       0 00       0.00       0 00         10,830.00       90 82       275 53       7,277.85       357.47       -3,693.33       3,710.59       0 00       0.00       0.00         10,890 00       90 82       275 53       7,277.42       360 36       -3,723 19       3,740 58       0 00       0 00       0 00       0 00         10,890 00       90 82       275 53       7,276 56       366 14       -3,782 90       3,800 58       0 00       0 00       0 00       0 00         10,980 00       90 82       275 53       7,276 13       369 03       -3,812 76       3,800 58       0 00       0 00       0 00       0 00         10,980 00       90 82       275 53       7,275 70       371 92       -3,842 62       3,860 57       0 00       0 00       0 00       0 00         11,010 00       90 82       275 53       7,275 27       374 81       -3,872 47       -3,890 57       0 00       0 00       0 00       0 00       0 00       0 00       0 00       0 00       0 00       0 00       0 00       0 00       0 00       0 00       0 00       0 00	10,740 00	90 82	275 53	7,279 13	348 80	-3,603 76	3,620 60	0.00	0.00	0.00
10,830.00       90 82       275 53       7,277.85       357.47       -3,693.33       3,710.59       0.00       0.00       0.00         10,860.00       90 82       275 53       7,277.42       360 36       -3,723 19       3,740 58       0.00       0.00       0.00         10,890.00       90 82       275 53       7,276 99       363 25       -3,753 04       3,770 58       0.00       0.00       0.00       0.00         10,950.00       90 82       275 53       7,276 13       369 03       -3,782.90       3,800 58       0.00       0.00       0.00       0.00         10,980.00       90 82       275 53       7,276 13       369 03       -3,842.62       3,860 57       0.00       0.00       0.00         11,010.00       90 82       275 53       7,275 70       371 92       -3,842.62       3,860 57       0.00       0.00       0.00         11,040.00       90 82       275 53       7,274 84       377.70       -3,903 33       3,920 57       0.00       0.00       0.00         11,070.00       90 82       275 53       7,274 84       377.70       -3,993 33       3,920 57       0.00       0.00       0.00       0.00         11,100.00	10,770.00	90 82	275 53	7,278 70	351.69	-3,633.61	3,650.59	0.00	- 0.00	0.00
10,860 00       90 82       275 53       7,277.42       360 36       -3,723 19       3,740 58       0 00       0 00       0 00       0 00       10,890 00       90 82       275 53       7,276 59       363 25       -3,753 04       3,770 58       0 00	10,800.00	90 82	275 53	7,278.27	354 58	-3,663.47	3,680 59	0 00	0.00	0 00
10,890 00       90 82       275 53       7,276,99       363 25       -3,753 04       3,770 58       0 00       0 00       0 00       0 00       10,920 00       90 82       275 53       7,276 56       366 14       -3,782.90       3,800 58       0 00	10,830.00	90 82	275 53	7,277.85	357.47	-3,693.33	3,710.59	0 00	0.00	0.00
10,920 00       90 82       275 53       7,276 56       366 14       -3,782.90       3,800 58       0 00	10,860 00	90 82	275 53	7,277.42	360 36	-3,723 19	3,740 58	0 00	0 00	0 00
10,950 00       90 82       275 53       7,276 13       369 03       -3,812 76       3,830.57       0 00       0 00       0 00       0 00         10,980 00       90 82       275 53       7,275 70       371 92       -3,842.62       3,860 57       0.00       0 00       0 00       0 00         11,010 00       90 82       275 53       7,274 84       377.70       -3,902 33       3,920 57       0 00       0 00       0 00       0 00         11,070.00       90 82       275 53       7,274 84       377.70       -3,902 33       3,920 57       0 00       0 00       0 00       0 00         11,070.00       90 82       275 53       7,274 41       380.59       -3,932.19       3,950 56       0 00       0 00       0 00       0 00         11,100 00       90 82       275 53       7,273 98       383 48       -3,962 04       3,980 56       0 00       0 00       0 00       0 00         11,130 00       90 82       275 53       7,273 55       386 37       -3,991 90       4,010 56       0 00       0 00       0 00       0 00         11,190 00       90 82       275 53       7,273 12       389 26       -4,021 76       4,040 55       0 00 <t< td=""><td>10,890 00</td><td>90 82</td><td>275 53</td><td>7,276.99</td><td>363 25</td><td>-3,753 04</td><td>3,770 58</td><td>0 00</td><td>0 00</td><td>0.00</td></t<>	10,890 00	90 82	275 53	7,276.99	363 25	-3,753 04	3,770 58	0 00	0 00	0.00
10,950,00       90,82       275,53       7,276,13       369,03       -3,812,76       3,830,57       0.00       0.00       0.00       0.00         10,980,00       90,82       275,53       7,275,70       371,92       -3,842,62       3,860,57       0.00       0.00       0.00       0.00         11,010,00       90,82       275,53       7,274,84       377,70       -3,902,33       3,920,57       0.00       0.00       0.00       0.00         11,070,00       90,82       275,53       7,274,41       380,59       -3,932,19       3,950,56       0.00       0.00       0.00       0.00         11,100,00       90,82       275,53       7,274,41       380,59       -3,932,19       3,950,56       0.00       0.00       0.00       0.00         11,100,00       90,82       275,53       7,274,41       380,59       -3,932,19       3,950,56       0.00       0.00       0.00       0.00         11,130,00       90,82       275,53       7,273,55       386,37       -3,991,90       4,010,56       0.00       0.00       0.00       0.00         11,190,00       90,82       275,53       7,273,12       389,26       -4,021,76       4,040,55       0.00 <t< td=""><td>10,920 00</td><td>90 82</td><td>275 53</td><td>7,276 56</td><td>366 14</td><td>-3,782.90</td><td>3,800 58</td><td>0 00</td><td>0 00</td><td>0 00</td></t<>	10,920 00	90 82	275 53	7,276 56	366 14	-3,782.90	3,800 58	0 00	0 00	0 00
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11,010 00       90 82       275 53       7,275 27       374 81       -3,872 47       3,890 57       0 00       0 00       0 00       0 00       11,040 00       90 82       275 53       7,274 84       377.70       -3,902 33       3,920 57       0 00       0 00       0 00       0 00       10 00       11,070.00       90 82       275 53       7,274 41       380.59       -3,932.19       3,950 56       0 00<	10,980 00	90 82	275 53	7,275 70	. 371 92	-3,842.62	3.860 57	0.00	0.00	0 00
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Planning Report

Database: Company: Project

Site:

Well:

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Design:

EDM 2003 14 Server Db

BEPCO, L.P. \_\_\_\_\_\_ Eddy Co., New Mexico (Nad 83) James Ranch Unit #105H James Ranch Unit #105H

Lateral #1 Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Site James Ranch Unit #105H KB Elev @ 3336 00ft (KB Elevation)

KB Elev @ 3336 00ft (KB Elevation) Gnd

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Planning Report

EDM 2003.14 Server Db

Project

BEPCO, L.P. .

Eddy Co , New Mexico (Nad 83) James Ranch Unit #105H

Well:

Wellbore:

James Ranch Unit #105H

Lateral #1 Plan #1

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference:

North Reference:

Site James Ranch Unit #105H KB Elev @=3336=00ft (KB Elevation) KB Elev @ 3336 00ft (KB Elevation)

Planned Survey  Weasured  Depth  (ff)	Inclination	Azimuth (9)	Vertical Depth (ft)	+N/S	+EI-W:	Vertical Section (ft)	Dogleg Rate (*/100ft)	Build Rate (°/100ft)	Tum Ràtë (9/100ft)	
13,080 00	90.82	275.53	7,245.66	574 21	-5,932.63	5,960.36	0 00	0.00	. 0 00	
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Target Name - hit/miss target - Shape		ie dir.	*W-5	FEFW)	Northing (ft)	Easting	Lättudg	Longitude
HL[JRU#105H] - plan misses by 6846 - Rectangle (sides W6		ft MD (6846 50 T	00 0 00 VD, 0.00 N, 0.00 E	0.00 · É	491,109.42	694,116.78	32° 20′ 56 968 N	103° 50' 18.964 W
LL[JRU#105H] - plan misses by 6846 - Rectangle (sides W1		ft MD (6846 50 T	00 0,00 VD, 0 00 N, 0 00 E	0 00 E)	491,109.42	694,116 78	32° 20' 56 968 N	103° 50' 18.964 W
PBHL#1[JRU#105H] - plan hits target - Point	0 00	0 00 7,244.	00 585.39	-6,048 16	491,694.81	688,068 61	32° 21' 3 032 N	103° 51' 29.439 W

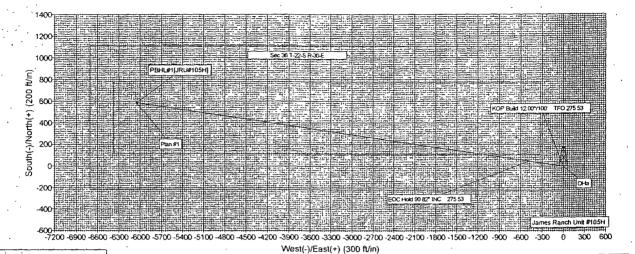
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Plan Annotations  Measured Vertical  Depth Depth  (ft) (ft)	Local Coordinates  NV-S  (ft)  Comment	
6,846 50 6,846 50 7,603 46 7,324 00	0 00 0 0 00 KOP Build 12 00°/100° TFO 275.53 46 66 -482 12 EOC Hold 90 82° INC 275 53	



Projectiddy Co., New Mexico (Nad 83)
Site. James Ranch Unit #105H
Well James Ranch Unit #405H
Wellbore Lateral #1
Plan Plan #1 (James Ranch Unit #105H/Lateral #1)





Azımuths to Gnd North True North -0.26 Magnetic North 7.74\* Magnetic Field Strength 48964 8nT Dip Angle 60 33\* Date 12/15/2008 Model IGRF200510

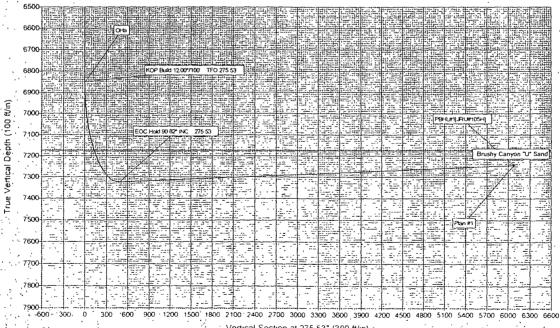
#### ANNOTATIONS

MD Annotation 6848 50 KOP Build 12 00\*/100\* TFO 275 53 7605 45 EOC Hold 90 82\* INC 275 53

#### PROJECT DETAILS Eddy Co New Mexico (Nad 83)

Geodebo System/US State Plane 1983 Datum North American Datum 1983 Ellipsoid GRS 1980 Zone New Mexico Eastem Zone

SECTION DETAILS TVD 6846 50 7324 00 7244 00 0 00 46 66 585 39



Vertical Section at 275 53° (300 ft/in)

1

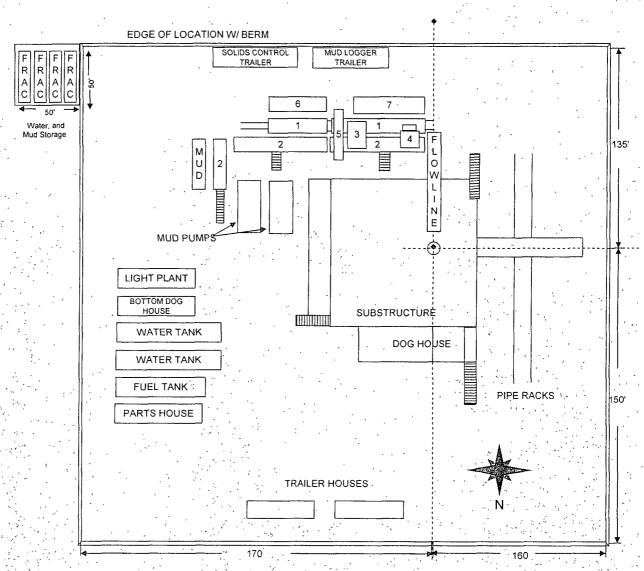


# BOPCO, L.P. James Ranch Unit #105H Section 36, T-22-S, R-30-E Eddy County, NM

# RIG LAYOUT SCHEMATIC INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

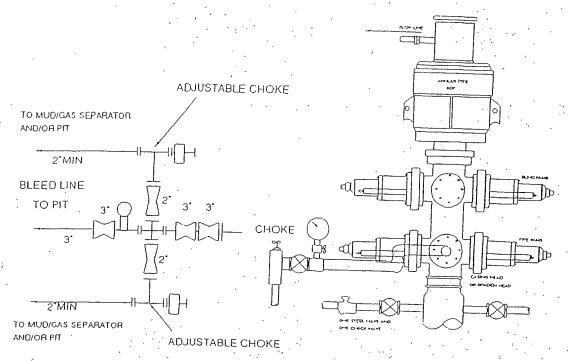
# Solids Control Equipment Legend

- 1) Roll Off Bin
- 2) Steel Tank
- 5) Centrifuge 6) Dewatering Unit
- 3) Mud Cleaner
- 7) Catch Tank
- 4) Shaker
- 8) Gas Seperator



Wtd-ser/Drilling/DrillingDiagrams/Drilling Rig Layout - Closed Loop JRU #105HRes Pit Exibit D w-rig

# 3000 PSI WP



# THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS.

- A. One double gate blowout preventer with lower rams for pipe and upper rams blind, all hydraulically controlled.
- 8 Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventers to have a pressure rating equivalent to that of the BOP's.
- F. Manual controls to be installed before drilling cement plug.
- G · Valve to control flow through drill pipe to be located on rig floor.
- H. All chokes will be adjustable. Choke spool may be used between rams.

DIAGRAM 1

## **MULTI-POINT SURFACE USE PLAN**

## NAME OF WELL: James Ranch Unit #105H

LEGAL DESCRIPTION - SURFACE: 2228' FNL, 920' FWL, Section 36, T22S, R30E, Eddy County, NM. BHL: 1830' FNL, 660' FWL, Section 35, T22S, R30E, Eddy County, New Mexico.

# **POINT 1: EXISTING ROADS**

A) Proposed Well Site Location:

See Exhibit "A" & "C".

B) Existing Roads:

From the junction of State Hwy 128 and WIPP Road, go north on WIPP Road 0.4 miles to lease road. On lease road go 0.3 miles west to lease road, on lease road to north 0.3 miles to lease road, on lease road go west 0.2 miles to lease road, go north 1.0 miles to JRU #11.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit "E"

## **POINT 2: NEW PLANNED ACCESS ROUTE**

A) Route Location:

Existing lease roads will be used.

B) Width

12' wide

C) Maximum Grade

Grade to match existing topography or as per BLM requirements.

D) Turnout Ditches

As required by BLM stipulations

E) Culverts, Cattle Guards, and Surfacing Equipment

If required, culverts and cattle guards will be set per BLM Specs.

# **POINT 3: LOCATION OF EXISTING WELLS**

Exhibits "C" indicates existing wells within the surrounding area.

A) Existing facilities within one mile owned or controlled by lessee/operator:

The BOPCO operated JRU #19 Battery is located in the NW quarter of SE quarter of Sec 36, T22S, R30E.

B) New Facilities in the Event of Production:

New production facilities will not be installed at the new location. Additional separators and heater/treaters as required will be set at the James Ranch Unit #19 Battery. Proposed flow lines will follow existing roads to JRU #19 battery. Power lines will follow existing roads and tie-in to existing facilities.

C) Rehabilitation of Disturbed Areas Unnecessary for Production:

Following the construction, those access areas required for continued production will be graded to provide drainage and minimize erosion. The areas unnecessary for use will be graded to blend in with the surrounding topography (see Point 10)

# POINT 5: LOCATION AND TYPE OF WATER SUPPLY

A) Location and Type of Water Supply

Fresh water will be hauled from Johnson Station 50 miles east of Carlsbad, New Mexico or other commercial facilities. Brine water will be hauled from commercial facilities.

B) Water Transportation System

Water hauling to the location will be over the existing and proposed roads.

# POINT 6: SOURCE OF CONSTRUCTION MATERIALS

A) Materials

On-site caliche will be used. If this is not sufficient, caliche will be hauled from a BLM approved pit.

B) Land Ownership

Federally Owned

C) Materials Foreign to the Site

No construction materials foreign to this area are anticipated for this drill site.

D) -Access Roads

See Exhibits "A" & "E".

## A) Cuttings - Closed Loop System

Cuttings will be contained in the steel pits and will be hauled to an approved disposal facility.

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# B) Drilling Fluids - Closed Loop System

Drilling fluids will be contained in the steel pits, frac tanks, and will be disposed of at licensed disposal facilities.

# C) Produced Fluids

Water production will be contained in the steel pits.

Hydrocarbon fluid or other fluids that may be produced during testing will be retained in test tanks.

#### D) Sewage

Current laws and regulations pertaining to the disposal of human waste will be complied with.

#### E) Garbage

Portable containers will be utilized for garbage disposal during the drilling of this well.

# F) Cleanup of Well Site

Upon release of the drilling rig, the surface of the drilling pad will be graded to accommodate a completion rig if electric log analysis indicate potential productive zones Reasonable cleanup will be performed prior to the final restoration of the site.

#### **POINT 8: ANCILLARY FACILITIES**

None required.

## **POINT 9: WELL SITE LAYOUT**

#### A) Rig Orientation and Layout

Exhibit "D" shows the dimensions of the well pad and closed loop system, and the location of major rig components. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary.

B) Locations of closed loop system and access road

See Exhibits "D" and "E".

C) Lining of the Pits

No reserve pit. Closed loop system.

#### POINT 10: PLANS FOR RESTORATION OF THE SURFACE

A) Reserve Pit Cleanup - Not applicable (see Point 9C above).

The pits will be fenced immediately after construction and shall be maintained until they are backfilled Previous to backfill operations, any hydrocarbon material on the pits' surfaces shall be removed. The fluids and solids contained in the pits shall be backfilled with soil excavated from the site and soil adjacent to the reserve pits. The restored surface of the pits shall be contoured to prevent impoundment of surface water flow. Water-bars will be constructed as needed to prevent excessive erosion. Topsoil, as available, shall be placed over the restored surface in a uniform layer. The area will be seeded according to the Bureau of Land Management stipulations during the appropriate season following restoration.

#### B) Restoration Plans - Production Developed

In addition, those areas not required for production will be graded to blend with the surrounding topography. Topsoil, as available, will be placed upon those areas and seeded. The portion of the site required for production will be graded to minimize erosion and provide access during inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

# C) Restoration Plans - No Production Developed

With no production developed, the entire surface disturbed by construction of the well site will be restored. The site will be contoured to blend with the surrounding topography and provide drainage of surface water. The topsoil, as available, shall be replaced in a uniform layer and seeded according to the Bureau of Land Management's stipulations.

#### D) Rehabilitation's Timetable

Upon completion of drilling operations, the initial cleanup of the site will be performed as soon as weather and site conditions allow economic execution of the work.

A) Terrain

Relatively flat.

B) Soil

Caliche and sand.

C) Vegetation

Sparse, primarily grasses and mesquite with very little grass.

D) Surface Use

Primarily grazing.

E) Surface Water

There are no ponds, lakes, streams or rivers within several miles of the wellsite.

F) Water Wells

The closest known fresh water wells are located in Sec 35 and Sec 24,, T22S, R30E, also in Sec 5, T23S, R31E. No water wells are within 1 miles of proposed JRU #105H.

G) Residences and Buildings

None in the immediate vicinity.

H) Historical Sites

None observed.

I) Archeological Resources

An archeological survey has been performed for this area and will be submitted to the Bureau of Land Management. Any location or construction conflicts will be resolved before construction begins.

J) Surface Ownership

The well site is on state owned land. There will be no new access roads required for this location.

- K) Well signs will be posted at the drilling site.
- L) Open Pits None used. Closed loop system

(Field personnel responsible for compliance with development plan for surface use)

DRILLING

William R. Dannels

Box 2760

Midland, Texas 79702

(432) 683-2277

PRODUCTION

Dean Clemmer

3104 East Green Street

Carlsbad, New Mexico 88220

(505) 887-7329

Carlos Cruz Box 2760

Midland, Texas 79702

(432) 683-2277

Date

GEG/mac

Gary E. Gerhard

# **OPERATOR CERTIFICATION**

12/31/08

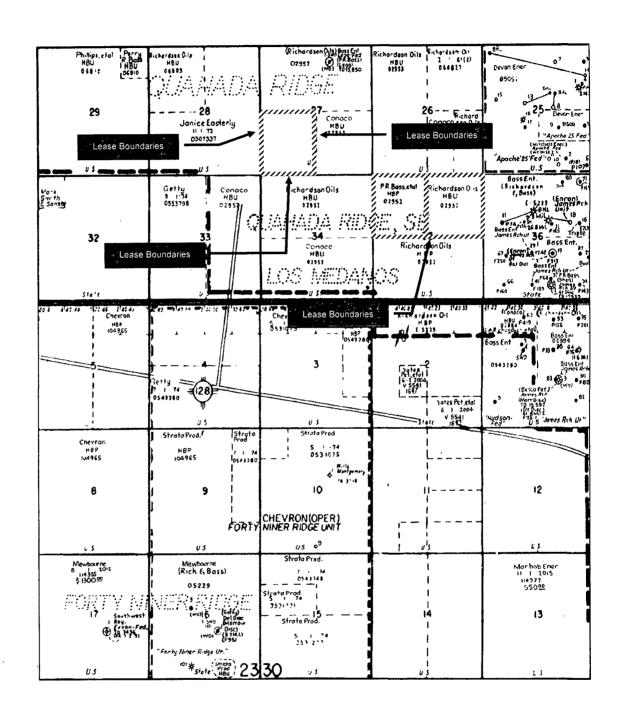
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by BOPCO, L.P. and it's contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C 1001 for the filing of a false statement.

Date

Gary E. Gerbard

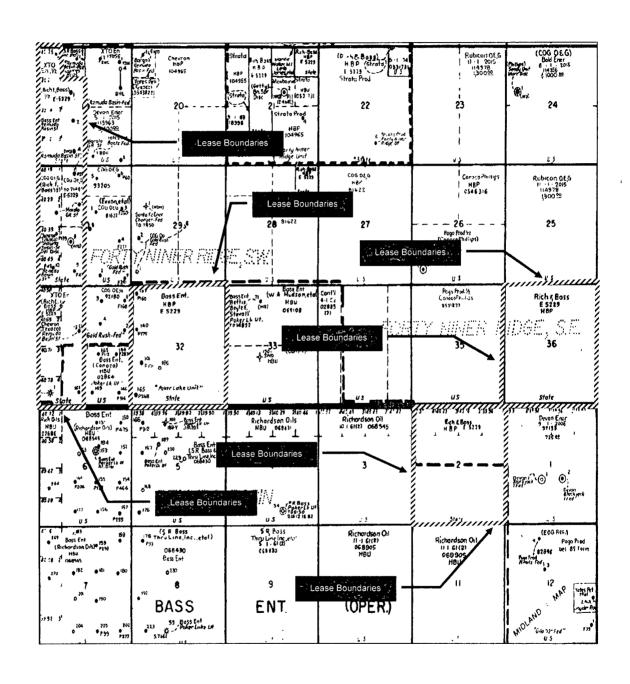
# James Ranch Unit #105H Exhibit "C"





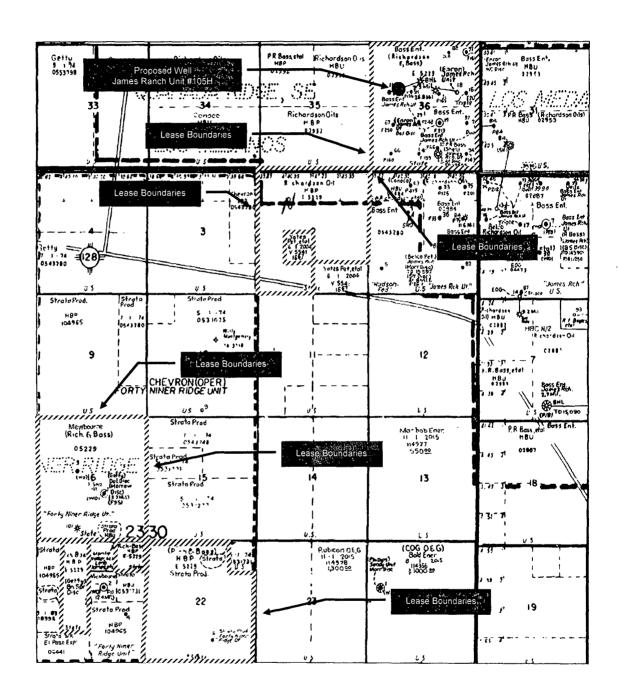
# James Ranch Unit #105H Exhibit "C"





## James Ranch Unit #105H Exhibit "C"





# PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
BOPCO, L.P.
NM-02952B
James Ranch Unit #105H
2428' FNL & 1340' FWL, Section 36, T. 22 S., R. 30 E
1830' FNL & 660' FWL, Sec 35, T. 22 S., R. 30 E
Section 35, T. 22 S., R 30 E., NMPM
Eddy County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
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Construction
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☐ Drilling
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High cave/karst
<b>⊠</b> Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment/Reclamation

#### I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

## II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

## III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

## IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

## V. SPECIAL REQUIREMENT(S)

#### LESSER PRAIRIE-CHICKENS

No surface use is allowed during the following time periods; unless otherwise specified, this stipulation does not apply to operation and maintenance of production facilities.

For the purpose of: Protecting Lesser Prairie-Chickens:

Oil and gas activities, including 3-D geophysical exploration and drilling, will not be allowed in lesser prairie-chicken habitat during the period from March 1<sup>st</sup> through June 15<sup>th</sup>, annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

#### VI. CONSTRUCTION

#### A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

#### B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 8 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

#### C. RESERVE PITS

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

#### D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

#### E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

#### F. ON LEASE ACCESS ROADS

#### Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

#### Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

#### Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

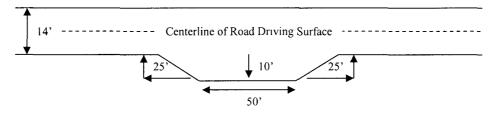
#### Ditching

Ditching shall be required on both sides of the road.

#### **Turnouts**

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

#### Standard Turnout - Plan View

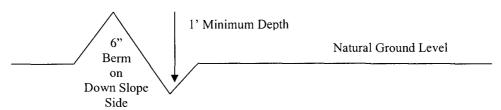


#### **Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

## Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

## Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

#### **Culvert Installations**

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

#### Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

## Fence Requirement

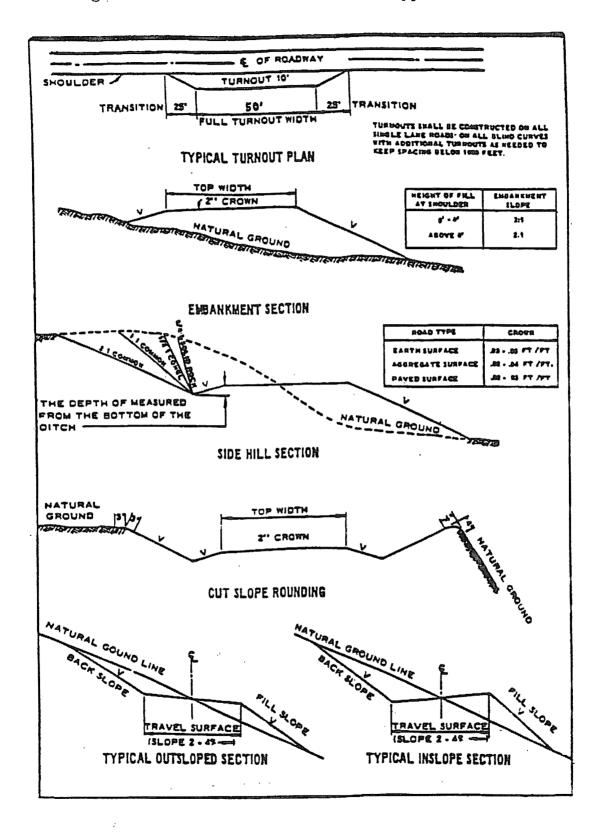
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

## **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 – Cross Sections and Plans For Typical Road Sections



#### VII. DRILLING

## A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

# **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 4. Gamma-Ray/Neutron logs shall be run from the base of the Salado formation to the surface. The logs shall be run at a speed which allows the logs to be legible and no faster than manufacturer of the logging tools recommended speed. (R-111-P area only)

#### B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

R-111-P potash/WIPP
High cave/karst.
Possible water flows in the Salado Group and Castile formation.
Possible lost circulation and water flows in the Delaware and Bone Spring formations.

- 1. The 13-3/8 inch surface casing shall be set at approximately 680 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is encountered at a shallower depth, the casing is to be set a minimum of 15 feet above the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
  - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

# Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - a. First stage to DV tool, cement shall:
  - Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.
  - b. Second stage above DV tool, cement shall:
  - Cement to circulate. If cement does not circulate, contact the appropriate BLM office. Additional cement may be required as based on gauge hole the excess is approximately 15%.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 5. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

#### C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8" intermediate casing shoe shall be 3000 (3M) psi.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. The tests shall be done by an independent service company.
  - b. The results of the test shall be reported to the appropriate BLM office.

- c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

#### D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

## E. WIPP Requirements

The proposed well is located more than 330' of the WIPP Land Withdrawal Area boundary. As a result, BOPCO, L. P. is requested, but not required to submit daily logs and deviation survey information to the Department of Energy per requirements of the Joint Powers Agreement. Any future entry into the well for purposes of completing additional drilling will require supplemental information.

BOPCO, L. P. can email the required information to Ms. Susan McCauslin at susan.mccauslin@wipp.ws or fax to her attention at 575-234-7061.

WWI 020709

## VIII. PRODUCTION (POST DRILLING)

#### A. WELL STRUCTURES & FACILITIES

#### **Placement of Production Facilities**

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

#### **Containment Structures**

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

### **Painting Requirement**

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

#### B. PIPELINES

#### STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the

release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

- 4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
  - (1) Land clearing.
  - (2) Earth-disturbing and earth-moving work.
  - (3) Blasting.
  - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of feet.
7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.
8. The holder shall install the pipeline on the surface in such a manner that will minimiz suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.
9. The pipeline shall be buried with a minimum of inches under all roads "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned t at least its former state with no bumps or dips remaining in the road surface.
10. The holder shall minimize disturbance to existing fences and other improvements or

- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his hehalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

#### C. ELECTRIC LINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

- 5. Powerlines shall be constructed in accordance to standards outlined in "Suggested Practices for Raptor Protection on Powerlines," Raptor Research Foundation, Inc., 1981. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication are "raptor safe." Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.
- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

#### 11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

## IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

#### A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

The operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

## Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

<u>Species</u>	<u>lb/acre</u>	
Plains B	ristlegrass	5lbs/A
Sand Bluestem		5lbs/A
Little Bluestem		3lbs/A
Big Bluestem		6lbs/A
Plains Coreopsis		2lbs/A
Sand Dr	opseed	1lbs/A

<sup>\*\*</sup>Four-winged Saltbush 5lbs/A

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Pounds of seed x percent purity x percent germination = pounds pure live seed (Insert Seed Mixture Here)

<sup>\*</sup> This can be used around well pads and other areas where caliche cannot be removed.

<sup>\*</sup>Pounds of pure live seed:

# X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

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Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.