

OCD-ARTESIA

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NM02953 & E5229
2. Name of Operator BOPCO, L. P.		6. If Indian, Allottee or Tribe Name
3a. Address P. O. Box 2760, Midland, TX 79702	3b. Phone No. (include area code) 432-683-2277	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface: NENE, UL A, 630' FNL, 330' FEL, Lat N32.354089, Long W103.826681 Bottom Hole: 660' FNL, 330' FEL, Sec 31, T22S, R31E, Lat N32.35345, Long W103.809539		8. Well Name and No. James Ranch Unit #129H
		9. API Well No. 30-015-38288
		10. Field and Pool, or Exploratory Area Quahada Ridge SE (Delaware)
		11. County or Parish, State Sec 36, T22S, R30E, Mer NMP

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☒ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ 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 recompleat 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 recompleat 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 to alter the bottom hole location, casing, cementing, and directional plans for the above captioned well. The new casing and cementing program will consist of the following:

13-3/8", 48#, H-40, STC: 0 - 580', Lead 345 sx RSS micro + additives (12.8 ppg, 1.87 yield), Tail 125 sx Class C + additives (14.8 ppg, 1.36 yield)
 9-5/8", 40#, J-55, LTC: 0 - 3,883', Lead 1100 sx Class C 35/65 + additives (12.8 ppg, 1.91 yield), Tail 240 sx Class C + additives (14.8 ppg, 1.34 yield)
 7", 26#, N-80, LTC: 0 - 8,050', DV Tool @ 4,500', 1st Stage: Lead 225 sx RSS micro + additives (10.5 ppg, 2.41 yield), Tail 200 sx RSS micro + additives (13 ppg, 1.38 yield)
 2nd Stage: Lead 350 sx RSS micro + additives (10.5 ppg, 2.41 yield), Tail 80 sx Class C + additives (14.8 ppg, 1.33 yield)
 4-1/2", 11.6#, HCP-110, LTC: 7,950 - 12,680', with Baker OH Packers

A new BHL is requested at 660' FNL & 330' FEL of Sec 31, T22S, R31E from original BHL at 430' FNL & 330' FEL of Sec 31, T22S, R31E.

Revised plats are attached reflecting the new BHL and Brushy Canyon penetration point.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Charles Warne		Title Drilling Engineer	RECEIVED MAR 11 2011 NMOCD ARTESIA APPROVED MAR 7 2011 Date /s/ Chris Walls BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE
Signature <i>Charles Warne</i>		Date 02/24/2011	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved by _____		Title _____	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		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.

(Instructions on page 2)

Accepted for record
NMOCD *DD*



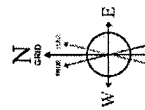
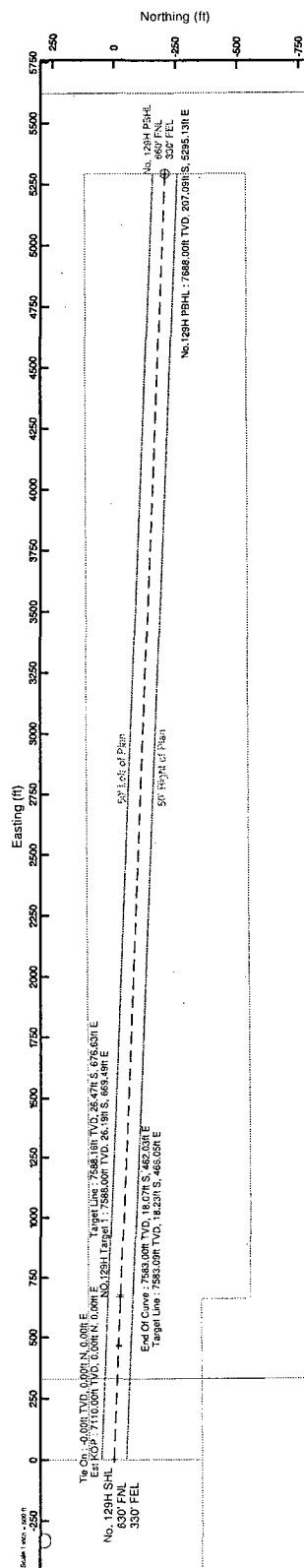


Skt: No. 129H SHL
Well: No. 129H
Wellbore: No. 129H PWB

Location: Eddy County, NM
Field: (JRU) Quahada Ridge, SE (Delaware)
Facility: James Ranch Unit No. 129H

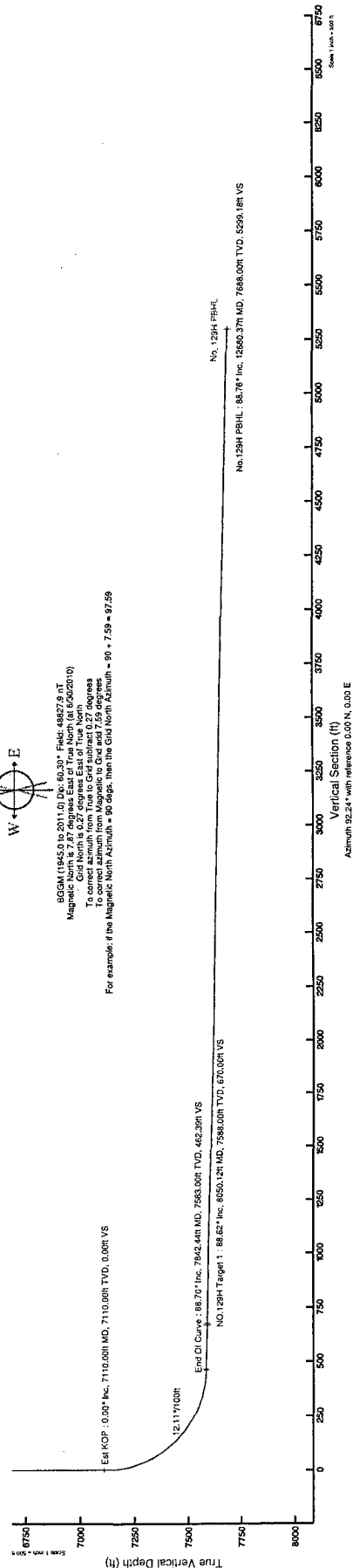
Well Profile Data

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°100ft)	VS (ft)
Tie On	0.00	0.000	92.240	0.00	0.00	0.00	0.00	0.00
Est KOP	7110.00	0.000	92.240	7110.00	0.00	0.00	0.00	0.00
End Of Curve	7842.44	88.700	92.240	7583.00	-18.07	462.03	12.11	462.39
Target Line	7846.46	88.620	92.240	7583.09	-18.23	466.05	2.00	466.41
NO.129H Target 1	8050.12	88.620	92.240	7588.00	-26.19	669.49	0.00	670.00
Target Line	88.763	92.240	7588.16	-26.47	676.63	2.00	677.15	
No.129H PBHL	12680.37	88.763	92.240	7688.00	-207.09	5295.13	0.00	5299.18



BGGM (1945.0 to 2011.0) Do: 60.30° Field: 49827.9 nT
Magnetic North is 7.87 degrees East of True North (at 6/30/2010)
Grid North is 0.27 degrees East of True North
To correct azimuth from True to Grid subtract 0.27 degrees
To correct azimuth from Magnetic to Grid add 7.59 degrees

To correct azimuth from Magnetic to Grid add 7.59 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = $90 + 7.59 = 97.59$





Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 129H SHL
Area	Eddy County, NM	Well	No. 129H
Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 129H PWB
Facility	James Ranch Unit No. 129H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Gentbry
Scale	0.999937	Report Generated	2/22/2011 at 2:10:23 PM
Convergence at slot	0.27° East	Database/Source file	WA_Midland/No._129H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W
Facility Reference Pt			697787.92	492919.58	32°21'14.720"N	103°49'36.052"W
Field Reference Pt			696627.35	492798.47	32°21'13.576"N	103°49'49.589"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 129H SHL (RT) to GL	19.00ft
Horizontal Reference Pt	SL	Rig on No. 129H SHL (RT) to Mean Sea Level	3343.00ft
Vertical Reference Pt	Rig on No. 129H SHL (RT)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 129H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	92.24°



Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
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Area	Eddy County, NM	Well	No. 129H
Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 129H PWB
Facility	James Ranch Unit No. 129H		

WELLPATH DATA (133 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	92.240	0.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	Tie On
100.00†	0.000	92.240	100.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
200.00†	0.000	92.240	200.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
300.00†	0.000	92.240	300.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
400.00†	0.000	92.240	400.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
500.00†	0.000	92.240	500.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
600.00†	0.000	92.240	600.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
700.00†	0.000	92.240	700.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
800.00†	0.000	92.240	800.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
900.00†	0.000	92.240	900.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1000.00†	0.000	92.240	1000.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1100.00†	0.000	92.240	1100.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1200.00†	0.000	92.240	1200.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1300.00†	0.000	92.240	1300.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1400.00†	0.000	92.240	1400.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1500.00†	0.000	92.240	1500.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1600.00†	0.000	92.240	1600.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1700.00†	0.000	92.240	1700.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1800.00†	0.000	92.240	1800.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
1900.00†	0.000	92.240	1900.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2000.00†	0.000	92.240	2000.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2100.00†	0.000	92.240	2100.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2200.00†	0.000	92.240	2200.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2300.00†	0.000	92.240	2300.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2400.00†	0.000	92.240	2400.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2500.00†	0.000	92.240	2500.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2600.00†	0.000	92.240	2600.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2700.00†	0.000	92.240	2700.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2800.00†	0.000	92.240	2800.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
2900.00†	0.000	92.240	2900.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3000.00†	0.000	92.240	3000.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3100.00†	0.000	92.240	3100.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3200.00†	0.000	92.240	3200.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3300.00†	0.000	92.240	3300.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3400.00†	0.000	92.240	3400.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3500.00†	0.000	92.240	3500.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3600.00†	0.000	92.240	3600.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3700.00†	0.000	92.240	3700.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3800.00†	0.000	92.240	3800.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
3900.00†	0.000	92.240	3900.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
4000.00†	0.000	92.240	4000.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
4100.00†	0.000	92.240	4100.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
4200.00†	0.000	92.240	4200.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
4300.00†	0.000	92.240	4300.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
4400.00†	0.000	92.240	4400.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	



Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 129H SHL
Area	Eddy County, NM	Well	No. 129H
Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 129H PWB
Facility	James Ranch Unit No. 129H		

WELLPATH DATA (133 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4500.00†	0.000	92.240	4500.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
4600.00†	0.000	92.240	4600.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
4700.00†	0.000	92.240	4700.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
4800.00†	0.000	92.240	4800.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
4900.00†	0.000	92.240	4900.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5000.00†	0.000	92.240	5000.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5100.00†	0.000	92.240	5100.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5200.00†	0.000	92.240	5200.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5300.00†	0.000	92.240	5300.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5400.00†	0.000	92.240	5400.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5500.00†	0.000	92.240	5500.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5600.00†	0.000	92.240	5600.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5700.00†	0.000	92.240	5700.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5800.00†	0.000	92.240	5800.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
5900.00†	0.000	92.240	5900.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6000.00†	0.000	92.240	6000.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6100.00†	0.000	92.240	6100.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6200.00†	0.000	92.240	6200.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6300.00†	0.000	92.240	6300.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6400.00†	0.000	92.240	6400.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6500.00†	0.000	92.240	6500.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6600.00†	0.000	92.240	6600.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6700.00†	0.000	92.240	6700.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6800.00†	0.000	92.240	6800.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
6900.00†	0.000	92.240	6900.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
7000.00†	0.000	92.240	7000.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
7100.00†	0.000	92.240	7100.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	
7110.00	0.000	92.240	7110.00	0.00	0.00	0.00	697787.92	492919.58	32°21'14.720"N	103°49'36.052"W	0.00	Est KOP
7200.00†	10.899	92.240	7199.46	8.53	-0.33	8.53	697796.44	492919.24	32°21'14.717"N	103°49'35.953"W	12.11	
7300.00†	23.009	92.240	7294.93	37.64	-1.47	37.61	697825.52	492918.11	32°21'14.704"N	103°49'35.614"W	12.11	
7400.00†	35.119	92.240	7382.18	86.13	-3.37	86.06	697873.97	492916.21	32°21'14.683"N	103°49'35.049"W	12.11	
7500.00†	47.230	92.240	7457.31	151.84	-5.93	151.73	697939.63	492913.64	32°21'14.654"N	103°49'34.284"W	12.11	
7600.00†	59.340	92.240	7516.98	231.86	-9.06	231.68	698019.58	492910.52	32°21'14.620"N	103°49'33.352"W	12.11	
7700.00†	71.450	92.240	7558.54	322.61	-12.61	322.36	698110.25	492906.97	32°21'14.580"N	103°49'32.295"W	12.11	
7800.00†	83.560	92.240	7580.14	420.06	-16.42	419.73	698207.62	492903.16	32°21'14.538"N	103°49'31.160"W	12.11	
7842.44	88.700	92.240	7583.00	462.39	-18.07	462.03	698249.92	492901.51	32°21'14.520"N	103°49'30.667"W	12.11	End Of Curve
7846.46	88.620	92.240	7583.09	466.41	-18.23	466.05	698253.93	492901.35	32°21'14.518"N	103°49'30.621"W	2.00	Target Line
7900.00†	88.620	92.240	7584.38	519.93	-20.32	519.53	698307.41	492899.26	32°21'14.495"N	103°49'29.997"W	0.00	
8000.00†	88.620	92.240	7586.79	619.90	-24.23	619.43	698407.30	492895.35	32°21'14.451"N	103°49'28.833"W	0.00	
8050.12	88.620	92.240	7588.00†	670.00	-26.19	669.49	698457.36	492893.39	32°21'14.430"N	103°49'28.249"W	0.00	NO.129H Target 1
8057.26	88.763	92.240	7588.16	677.15	-26.47	676.63	698464.50	492893.11	32°21'14.427"N	103°49'28.166"W	2.00	Target Line
8100.00†	88.763	92.240	7589.09	719.87	-28.14	719.32	698507.19	492891.44	32°21'14.408"N	103°49'27.669"W	0.00	
8200.00†	88.763	92.240	7591.25	819.85	-32.04	819.22	698607.08	492887.54	32°21'14.365"N	103°49'26.504"W	0.00	
8300.00†	88.763	92.240	7593.41	919.83	-35.95	919.12	698706.98	492883.63	32°21'14.321"N	103°49'25.340"W	0.00	
8400.00†	88.763	92.240	7595.56	1019.80	-39.86	1019.02	698806.87	492879.72	32°21'14.278"N	103°49'24.176"W	0.00	



Planned Wellpath Report

Prelim_2
Page 4 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 129H SHL
Area	Eddy County, NM	Well	No. 129H
Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 129H PWB
Facility	James Ranch Unit No. 129H		

WELLPATH DATA (133 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8500.00†	88.763	92.240	7597.72	1119.78	-43.76	1118.92	698906.66	492875.82	32°21'14.235"N	103°49'23.011"W	0.00	
8600.00†	88.763	92.240	7599.88	1219.76	-47.67	1218.82	699006.66	492871.91	32°21'14.191"N	103°49'21.847"W	0.00	
8700.00†	88.763	92.240	7602.04	1319.73	-51.58	1318.72	699106.55	492868.00	32°21'14.148"N	103°49'20.683"W	0.00	
8800.00†	88.763	92.240	7604.20	1419.71	-55.49	1418.62	699206.45	492864.10	32°21'14.105"N	103°49'19.518"W	0.00	
8900.00†	88.763	92.240	7606.36	1519.69	-59.39	1518.53	699306.34	492860.19	32°21'14.061"N	103°49'18.354"W	0.00	
9000.00†	88.763	92.240	7608.52	1619.66	-63.30	1618.43	699406.24	492856.28	32°21'14.018"N	103°49'17.190"W	0.00	
9100.00†	88.763	92.240	7610.68	1719.64	-67.21	1718.33	699506.13	492852.38	32°21'13.974"N	103°49'16.025"W	0.00	
9200.00†	88.763	92.240	7612.84	1819.62	-71.11	1818.23	699606.02	492848.47	32°21'13.931"N	103°49'14.861"W	0.00	
9300.00†	88.763	92.240	7615.00	1919.59	-75.02	1918.13	699705.92	492844.56	32°21'13.888"N	103°49'13.697"W	0.00	
9400.00†	88.763	92.240	7617.16	2019.57	-78.93	2018.03	699805.81	492840.66	32°21'13.844"N	103°49'12.532"W	0.00	
9500.00†	88.763	92.240	7619.32	2119.55	-82.83	2117.93	699905.70	492836.75	32°21'13.801"N	103°49'11.368"W	0.00	
9600.00†	88.763	92.240	7621.48	2219.52	-86.74	2217.83	700005.60	492832.84	32°21'13.757"N	103°49'10.204"W	0.00	
9700.00†	88.763	92.240	7623.64	2319.50	-90.65	2317.73	700105.49	492828.94	32°21'13.714"N	103°49'09.039"W	0.00	
9800.00†	88.763	92.240	7625.80	2419.48	-94.56	2417.63	700205.39	492825.03	32°21'13.671"N	103°49'07.875"W	0.00	
9900.00†	88.763	92.240	7627.96	2519.45	-98.46	2517.53	700305.28	492821.12	32°21'13.627"N	103°49'06.711"W	0.00	
10000.00†	88.763	92.240	7630.12	2619.43	-102.37	2617.43	700405.17	492817.22	32°21'13.584"N	103°49'05.546"W	0.00	
10100.00†	88.763	92.240	7632.28	2719.41	-106.28	2717.33	700505.07	492813.31	32°21'13.540"N	103°49'04.382"W	0.00	
10200.00†	88.763	92.240	7634.44	2819.38	-110.18	2817.23	700604.96	492809.40	32°21'13.497"N	103°49'03.218"W	0.00	
10300.00†	88.763	92.240	7636.60	2919.36	-114.09	2917.13	700704.86	492805.50	32°21'13.453"N	103°49'02.053"W	0.00	
10400.00†	88.763	92.240	7638.76	3019.34	-118.00	3017.03	700804.75	492801.59	32°21'13.410"N	103°49'00.889"W	0.00	
10500.00†	88.763	92.240	7640.91	3119.31	-121.90	3116.93	700904.64	492797.68	32°21'13.367"N	103°48'59.725"W	0.00	
10600.00†	88.763	92.240	7643.07	3219.29	-125.81	3216.83	701004.54	492793.77	32°21'13.323"N	103°48'58.560"W	0.00	
10700.00†	88.763	92.240	7645.23	3319.27	-129.72	3316.73	701104.43	492789.87	32°21'13.280"N	103°48'57.396"W	0.00	
10800.00†	88.763	92.240	7647.39	3419.24	-133.63	3416.63	701204.32	492785.96	32°21'13.236"N	103°48'56.232"W	0.00	
10900.00†	88.763	92.240	7649.55	3519.22	-137.53	3516.53	701304.22	492782.05	32°21'13.193"N	103°48'55.067"W	0.00	
11000.00†	88.763	92.240	7651.71	3619.20	-141.44	3616.43	701404.11	492778.15	32°21'13.149"N	103°48'53.903"W	0.00	
11100.00†	88.763	92.240	7653.87	3719.17	-145.35	3716.33	701504.01	492774.24	32°21'13.106"N	103°48'52.739"W	0.00	
11200.00†	88.763	92.240	7656.03	3819.15	-149.25	3816.23	701603.90	492770.33	32°21'13.063"N	103°48'51.574"W	0.00	
11300.00†	88.763	92.240	7658.19	3919.13	-153.16	3916.13	701703.79	492766.43	32°21'13.019"N	103°48'50.410"W	0.00	
11400.00†	88.763	92.240	7660.35	4019.10	-157.07	4016.03	701803.69	492762.52	32°21'12.976"N	103°48'49.246"W	0.00	
11500.00†	88.763	92.240	7662.51	4119.08	-160.97	4115.93	701903.58	492758.61	32°21'12.932"N	103°48'48.081"W	0.00	
11600.00†	88.763	92.240	7664.67	4219.06	-164.88	4215.83	702003.48	492754.71	32°21'12.889"N	103°48'46.917"W	0.00	
11700.00†	88.763	92.240	7666.83	4319.03	-168.79	4315.73	702103.37	492750.80	32°21'12.845"N	103°48'45.753"W	0.00	
11800.00†	88.763	92.240	7668.99	4419.01	-172.70	4415.63	702203.26	492746.89	32°21'12.802"N	103°48'44.588"W	0.00	
11900.00†	88.763	92.240	7671.15	4518.99	-176.60	4515.53	702303.16	492742.99	32°21'12.758"N	103°48'43.424"W	0.00	
12000.00†	88.763	92.240	7673.31	4618.96	-180.51	4615.43	702403.05	492739.08	32°21'12.715"N	103°48'42.260"W	0.00	
12100.00†	88.763	92.240	7675.47	4718.94	-184.42	4715.34	702502.94	492735.17	32°21'12.671"N	103°48'41.095"W	0.00	
12200.00†	88.763	92.240	7677.63	4818.92	-188.32	4815.24	702602.84	492731.27	32°21'12.628"N	103°48'39.931"W	0.00	
12300.00†	88.763	92.240	7679.79	4918.89	-192.23	4915.14	702702.73	492727.36	32°21'12.584"N	103°48'38.767"W	0.00	
12400.00†	88.763	92.240	7681.95	5018.87	-196.14	5015.04	702802.63	492723.45	32°21'12.541"N	103°48'37.603"W	0.00	
12500.00†	88.763	92.240	7684.10	5118.85	-200.04	5114.94	702902.52	492719.55	32°21'12.497"N	103°48'36.438"W	0.00	
12600.00†	88.763	92.240	7686.26	5218.82	-203.95	5214.84	703002.41	492715.64	32°21'12.454"N	103°48'35.274"W	0.00	
12680.37	88.763	92.240	7688.00†	5299.18	-207.09	5295.13	703082.70	492712.50	32°21'12.419"N	103°48'34.338"W	0.00	No.129H PBHL



Planned Wellpath Report

Prelim_2
Page 5 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 129H SHL
Area	Eddy County, NM	Well	No. 129H
Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 129H PWB
Facility	James Ranch Unit No. 129H		

HOLE & CASING SECTIONS Ref Wellbore: No. 129H PWB Ref Wellpath: Prelim_2									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
8.75in Open Hole	0.00	7842.44	7842.44	0.00	7583.00	0.00	0.00	-18.07	462.03
7in Casing	0.00	7842.44	7842.44	0.00	7583.00	0.00	0.00	-18.07	462.03
6.125in Open Hole	7842.44	12680.37	4837.93	7583.00	7688.00	-18.07	462.03	-207.09	5295.13

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) Target 1	8050.12	7588.00	-26.19	669.49	698457.36	492893.39	32°21'14.430"N	103°49'28.249"W	point
2) No. 129H PBHL	12680.37	7688.00	-207.09	5295.13	703082.70	492712.50	32°21'12.419"N	103°48'34.338"W	point

SURVEY PROGRAM Ref Wellbore: No. 129H PWB Ref Wellpath: Prelim_2				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.00	7836.00	Generic gyro - continuous (Standard)		No. 129H PWB
7836.00	12680.37	NaviTrak (Standard)		No. 129H PWB

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 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-38288	Pool Code 50443	Pool Name QUAHADA RIDGE, SE (DELAWARE)
Property Code 306407	Property Name JAMES RANCH UNIT	Well Number 129H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3324'

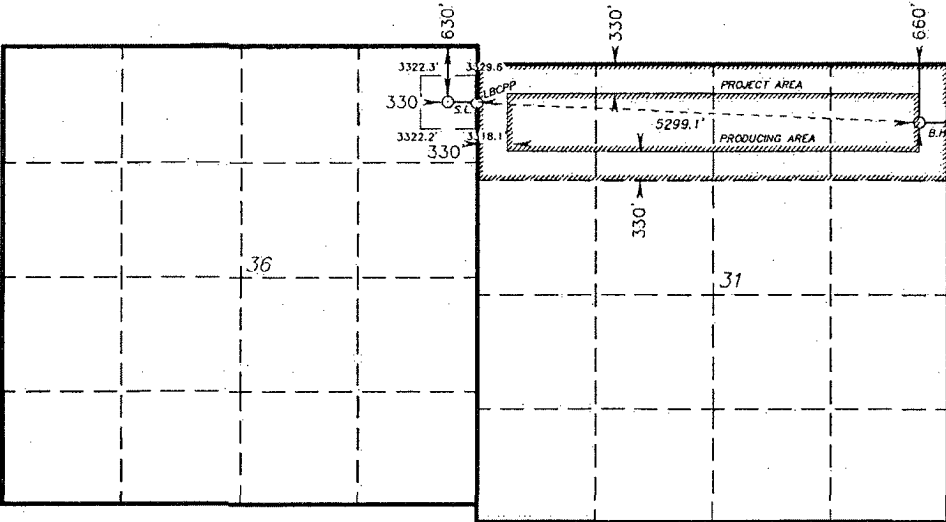
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	36	22 S	30 E		630	NORTH	330	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	22 S	31 E		660	NORTH	330	EAST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

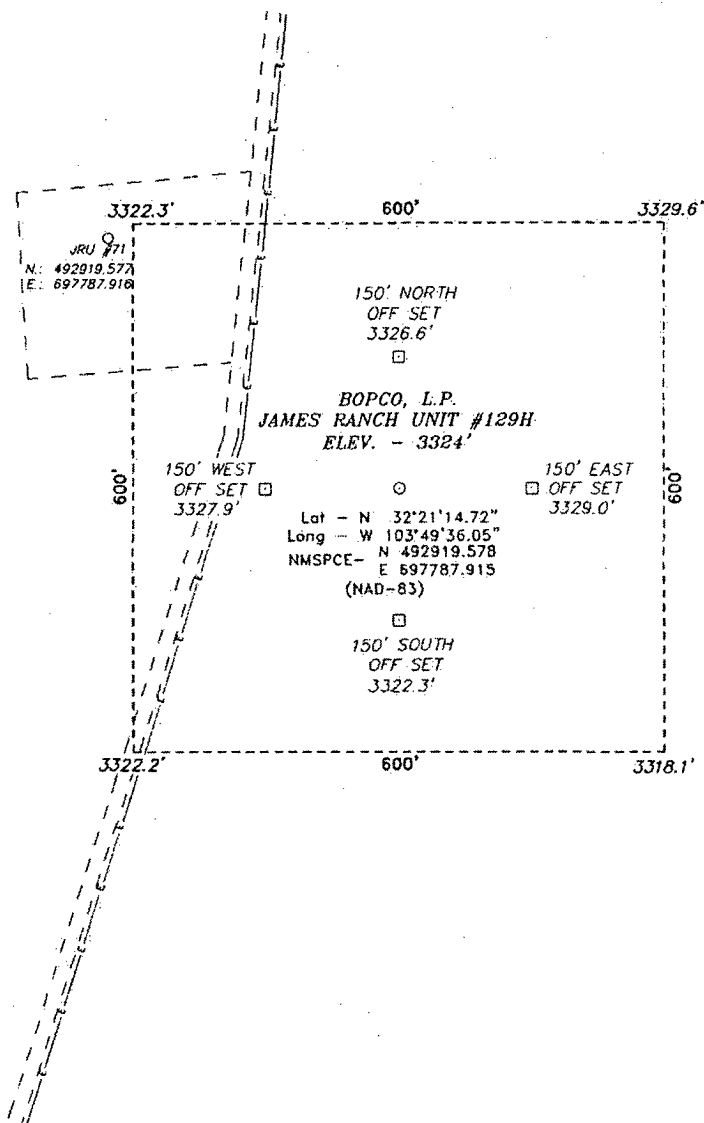
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Jeremy Braden</i> 2-24-11 Signature Date Jeremy Braden Printed Name
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. <i>Gary L. Jones</i> Date Surveyor Signature of Professional Surveyor GARY L. JONES 7977 Certificate No. Gary L. Jones: 7977 BASIN SURVEYS		

SURFACE LOCATION Lat - N 32°21'14.72" Long - W 103°49'36.05" NMSPCE - N 492919.578 E 697787.915 (NAD-83)	DELAWARE PENETRATION PT. Lat - N 32°21'14.72" Long - W 103°49'36.05" NMSPCE - N 492919.578 E 697787.915 (NAD-83)	LO BRUSHY CANYON "W" SAND PENETRATION PT. Lat - N 32°21'14.58" Long - W 103°49'32.30" NMSPCE - N 492906.97 E 698110.25 (NAD-83)	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°21'12.42" Long - W 103°48'34.34" NMSPCE - N 492712.50 E 703082.70 (NAD-83)
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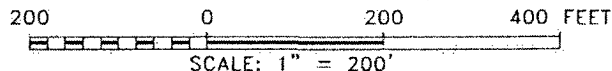
73

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



Directions to Location:

FROM THE JUNCTION OF HWY 128 AND WIPP ROAD,
GO NORTH ON WIPP ROAD 0.8 MILES TO LEASE
ROAD, ON LEASE ROAD GO WEST 0.4 MILES TO
LEASE ROAD, ON LEASE ROAD GO NORTH 2.0 MILES
TO PROPOSED LOCATION.



BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 22992 Drawn By: J. SMALL

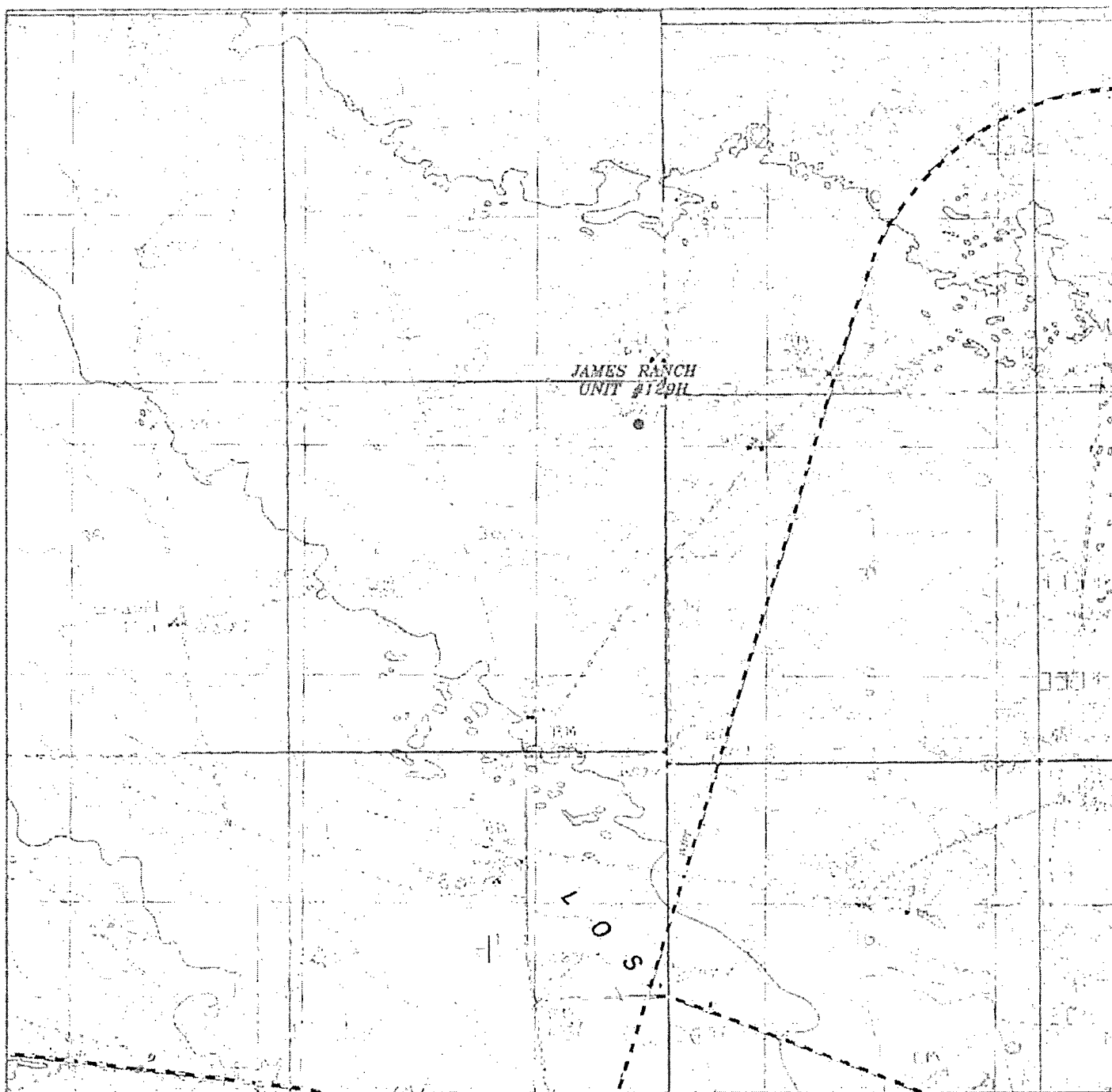
Date: 06-28-2010 Disk: JMS 22992

BOPCO, L.P.

REF: JAMES RANCH UNIT #129H / WELL PAD TOPO

THE JAMES RANCH UNIT #129H LOCATED 630'
FROM THE NORTH LINE AND 330' FROM THE EAST LINE OF
SECTION 36, TOWNSHIP 22 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 06-25-2010 Sheet 1 of 1 Sheets



JAMES RANCH UNIT #129H

Located 630' FNL and 330' FEL

Section 36, Township 22 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



focused on excellence
in the oilfield

P.O. Box 1786
1170 N. West Canyon Rd
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-7206 - Fax
basinsurveys.com

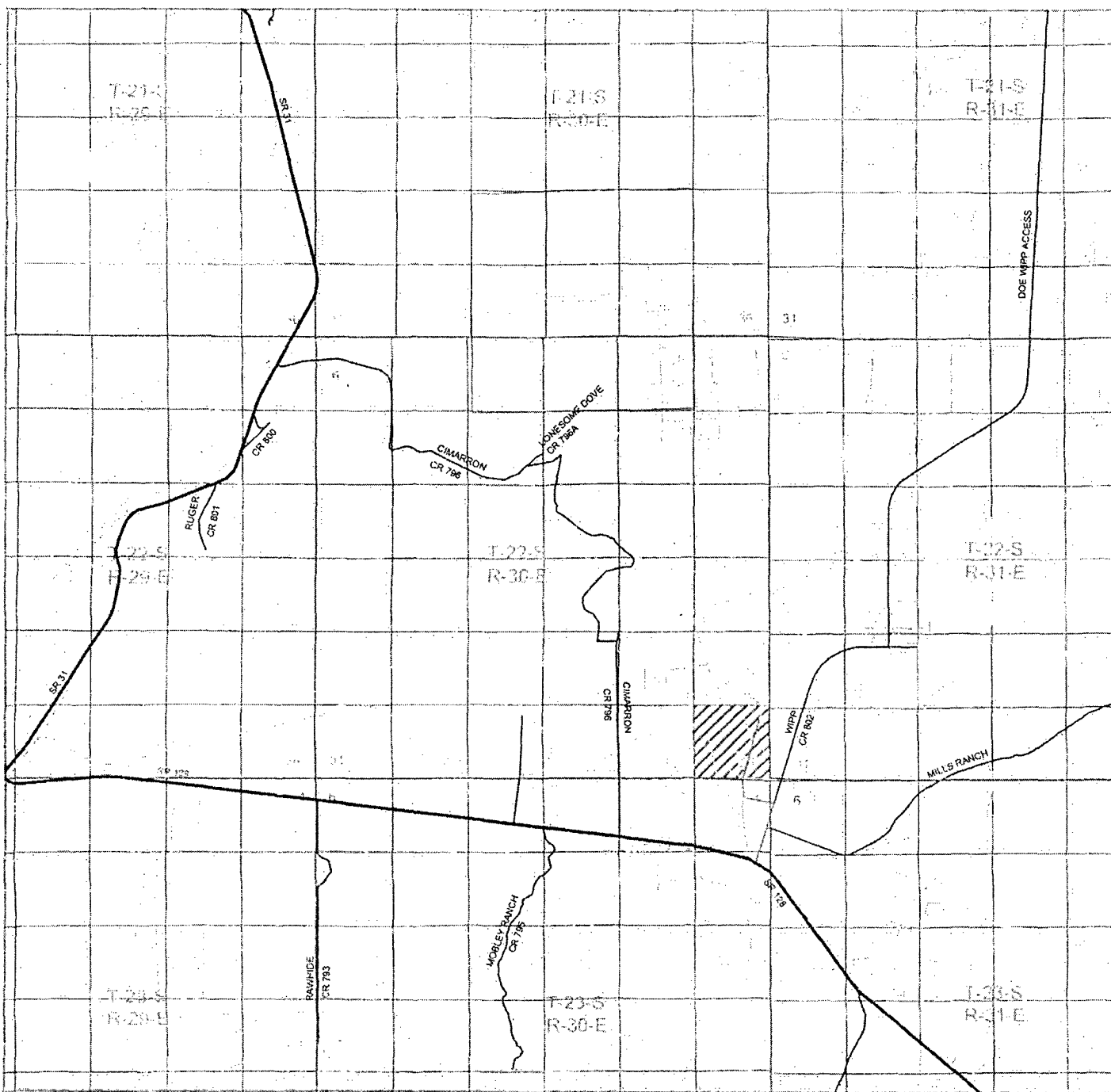
Well Number: JMS 2290

Survey Date: 06-25-2010

Scale: 1" = 2000'

Date: 06-28-2010

BOPCO, L.P.



JAMES RANCH UNIT #129H

Located 630' FNL and 330' FEL

Section 36, Township 22 South, Range 30 East,

N.M.P.M., Eddy County, New Mexico.



focused on excellence
in the oilfield

Box 1748
1120 N. West County Rd.
Hobbs, New Mexico 88241
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(505) 395-5305 - Fax
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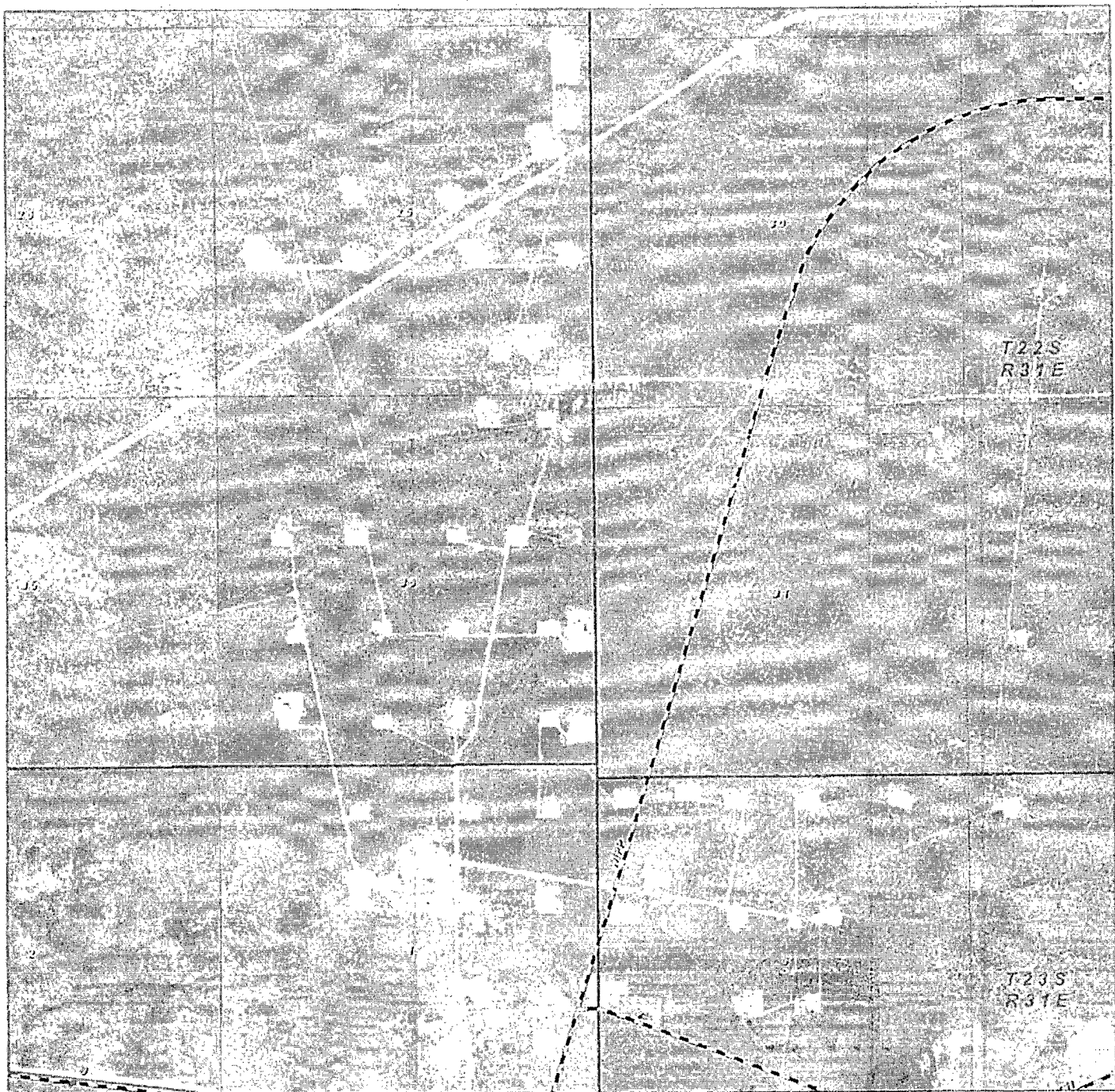
W.A. Number: JMC 72000

Survey Date: 01-20-2010

Scale: 1" = 1/2 Mile

Rev: 06-28-2010

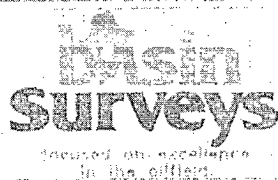
BOPCO, L.P.



JAMES RANCH UNIT #129H

Located 630' FNL and 330' FEL

Section 36, Township 22 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



EST. July 1986
1170 N. West County Rd.
Hobbs, New Mexico 88241
(875) 583-7316 - Office
(575) 582-2705 - Fax
basinsurveys.com

NO TOLERANCE FOR VIOLENCE

Scale: 1" = 1000'

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FCC LAND

BOPCO, L.P.