

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**CONFIDENTIAL**
OLD ARTESIAFORM 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 ☐ Other2 Name of Operator
BOPCO, L.P.3a Address
P.O. Box 2760 Midland TX 797023b Phone No. (include area code)
(432)683-22774 Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: Unit F, Sec 36, T22S, R30E, 2000' FNL, 1730' FWL
BHL: Unit D, Sec 35, T22S, R30E, 575' FNL, 367' FWL5 Lease Serial No
NM 02952B

6 If Indian, Allottee or Tribe Name

7 If Unit or CA/Agreement, Name and/or No
NMNM70965F8 Well Name and No
James Ranch Unit 104H9 API Well No
30-015-3727110 Field and Pool, or Exploratory Area
Quahada Ridge SE (Delaware)11 County or Parish, State
Eddy
NM

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 Initial completion
	☐ 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 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, LP respectfully wishes to report the initial completion of the wellbore as follows:

12/18/09 (Stage 1 @ 14,064') SLB frac down casing: 2940 gals 25# linear, 630 gals 15% HCl, 51,140 gals YF125ST w/ 133,850# 16/30 Ottawa. Flushed w/ 1890 gals 25# linear gel. Drop stage 2 ball in 546 gals 25# linear. (Stage 2 @ 13,711') SLB frac down casing: 8,778 gals 25# linear, 1596 gals 15% HCl, 51,685 gals YF125ST w/ 157,055# 16/30 Ottawa. Flushed w/ 4536 gals 25# linear gel. Drop stage 3 ball in 420 gals 25# linear. (Stage 3 @ 13,353') SLB frac down casing: 10,248 gals 25# linear, 756 gals 15% HCl, 51,584 gals YF125ST w/ 156,513# 16/30 Ottawa. Flushed w/ 1848 gals 25# linear gel. Drop stage 4 ball in 504 gals 25# linear. (Stage 4 @ 12,949') SLB frac down casing: 9,744 gals 25# linear, 756 gals 15% HCl, 51,614 gals YF125ST w/ 156,778# 16/30 Ottawa. Flushed w/ 1680 gals 25# linear gel. Drop stage 5 ball in 420 gals 25# linear. (Stage 5 @ 12,500') SLB frac down casing: 10,164 gals 25# linear, 756 gals 15% HCl, 50,032 gals YF125ST w/ 155,540# 16/30 Ottawa. Flushed w/ 1890 gals 25# linear gel. Drop stage 6 ball in 420 gals 25# linear. (Stage 6 @ 12,053') SLB frac down casing: 8,022 gals 25# linear, 756 gals 15% HCl, 51,554 gals YF125ST w/ 156,242# 16/30 Ottawa. Flushed w/ 1638 gals 25# linear gel. Drop stage 7 ball in 504 gals 25# linear.

See attachment for remaining details.

14 I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Valerie Truax

Title Regulatory Admin Assistant

Signature

Date 02/01/2010

ACCEPTED FOR RECORD**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

FEB 21 2010

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

BUREAU OF LAND MANAGEMENT

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)

D.D.
2/23/10

JRU #104H

(Stage 7 @ 11,756') SLB frac down casing: 8,022 gals 25# linear, 756 gals 15% HCl, 51,232 gals YF125ST w/ 155,942# 16/30 Ottawa. Flushed w/ 1554 gals 25# linear gel. Drop stage 8 ball in 504 gals 25# linear. (Stage 8 @ 11,457') SLB frac down casing: 8,988 gals 25# linear, 1008 gals 15% HCl, 51,464 gals YF125ST w/ 155,450# 16/30 Ottawa. Flushed w/ 1848 gals 25# linear gel. Drop stage 9 ball in 462 gals 25# linear. (Stage 9 @ 11,050') SLB frac down casing: 8,358 gals 25# linear, 756 gals 15% HCl, 51,627 gals YF125ST w/ 155,560# 16/30 Ottawa. Flushed w/ 1594 gals 25# linear gel. Drop 1st stage 10 ball in 905 gals 25# linear, 6,376 gals 25# linear, 1077 gals 15% HCl, 8,401 gals 25# linear. Dropped 2nd ball (1st did not arrive on seat).

(Stage 10 @ 10,692') SLB frac down casing: 52,145 gals YF125ST w/ 161,730# 16/30 Ottawa. Flushed w/ 2142 gals 25# linear gel. Drop stage 11 ball in 546 gals 25# linear.

(Stage 11 @ 10,293') SLB frac down casing: 7,686 gals 25# linear, 924 gals 15% HCl, 51,322 gals YF125ST w/ 155,800# 16/30 Ottawa. Flushed w/ 1806 gals 25# linear gel. Drop stage 12 ball in 420 gals 25# linear gel. (Stage 12 @ 9,938') SLB frac down casing: 8,358 gals 25# linear, 1050 gals 15% HCl, 51,715 gals YF125ST w/ 157,320# 16/30 Ottawa. Flushed w/ 1890 gals 25# linear gel. Drop stage 13 ball in 1974 gals 25# linear gel.

(Stage 13 @ 9,539') SLB frac down casing: 5,754 gals 25# linear, 756 gals 15% HCl, 51,754 YF125ST w/ 157,400# 16/30 Ottawa. Flushed w/ 1764 gals 25# linear gel. Drop stage 14 ball in 420 gals 25# linear gel. (Stage 14 @ 9,155') SLB frac down casing: 18,270 gals 25# linear, 588 gals 15% HCl, 52,093 gals YF125ST w/ 161,040# 16/30 Ottawa. Flushed w/ 1596 gals 25# linear gel. Drop stage 15 ball in 840 gals 25# linear gel. (Stage 15 @ 8,760') SLB frac down casing: 7,308 gals 25# linear, 714 gals 15% HCl, 50,454 gals YF125ST w/ 149,940# 16/30 Ottawa. Flushed w/ 1638 gals 25# linear gel. Drop stage 16 ball in 462 gals 25# linear gel.

(Stage 16 @ 8,317') SLB frac down casing: 8,568 gals 25# linear, 630 gals 15% HCl, 52,690 YF125ST w/ 155,270# 16/30 Ottawa. Flushed w/ 504 gals 25# linear gel. Drop stage 17 ball in 504 gals 25# linear gel. (Stage 17 @ 7,973') SLB frac down casing: 5,586 gals 25# linear, 51,382 YF125ST w/ 156,330# 16/30 Ottawa. Flushed w/ 1470 gals 25# linear gel. Drop stage 18 ball in 546 gals 25# linear gel. (Stage 18 @ 7,715') SLB frac down casing: 11,928# linear flush for ball to seat while waiting on last load of sand. 672 gals 25# linear to restart job, 49,501 gals YF125ST w/ 148,710# 16/30 Ottawa. Flushed w/ 11,340 gals 25# linear gel.

12/20-21/09 Wash down to 1st BFP sleeve @ 7713'. Drill out ball seats + sleeves @ 7713', 7971', 8316', 8758', 9153', 9537', 9936', 10,291', 10,690', 11,048', 11,455', 11,754' & 12,051'. EOT @ 11,573'.

12/23/09 FRIH w/ tbg to tag fill @ 12,349'. Attempt to break conv circ; attempt to regain circ w/ FAU. PUH w/ tbg to CV, release press through dart valve & replace 2-3/8" PH-6 CV. EOT @ 5017'.

12/25-12/28/09 SD for weekend.

12/29/09 RIH w/ DCs + L-80 tbg. POOH w/ PH-6 tbg to CV @ 5700'. RBIH w/ tbg to 7678' & install 1st CV.

12/30/09 CIH w/ tbg to 12,107'. Regain circulation.

12/31/09 RIH w/ tbg to 10,953' & 12,104' (to install 3rd CV @ 12,104'). POOH & SBID w/ tbg, EOT @ 10,953'. Remove CV & cont to POOH & SBID w/ tbg.

01/01-01/04/10 SD for weekend.

01/06/10 Replace 2-3/8" rams w/ 4-1/2".

01/08/10 Wash down to ball sleeve @ 12,498' and drill out sleeve. Wash down to sleeve #15 @ 12,947' and drill out sleeve. CIH w/ CT to sleeve #16 @ 13,351' and drill out sleeve.

01/12/10 Replace 4-1/2" rams w/ 2-7/8". RIH w/ BP & C + 6 jts 2-7/8" production tbg.

01/13/10 RIH w/ BHA & 2-7/8" L-80 tbg, secured EL + CS w/ 3-bands per jt. Made cable splice & landed tbg in WH. EOT @ 6,759'.

01/14/10 Well on production.

Best test to date on 01/28/10: 1003 BO, 955 BW, 565 MCF, TP 450 psi, LP 61 psi, CP 360 psi on 31/64" choke.

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 12, 2005

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

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37271	Pool Code 50443	Pool Name Quahada Ridge, SE (Delaware)
Property Code 306407	Property Name JAMES RANCH UNIT	Well Number 104H
OGRM No. 260737	Operator Name BOPCO, L.P.	Elevation 3316'

Surface Location

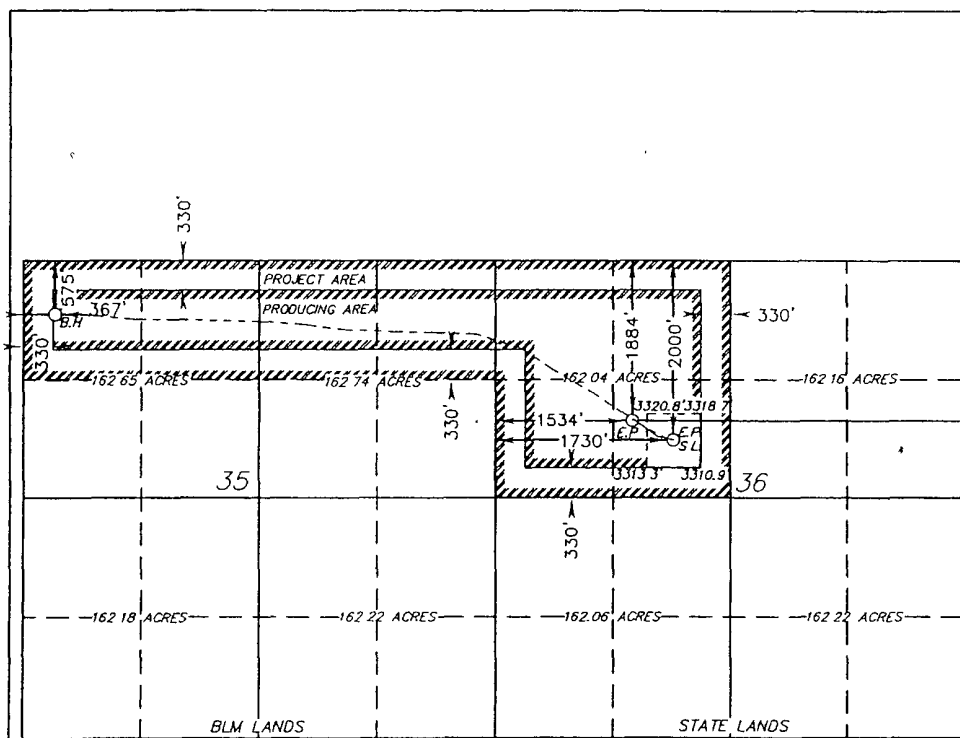
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	36	22 S	30 E		2000	NORTH	1730	WEST	EDDY

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
D	35	22 S	30 E		575	NORTH	367	WEST	EDDY

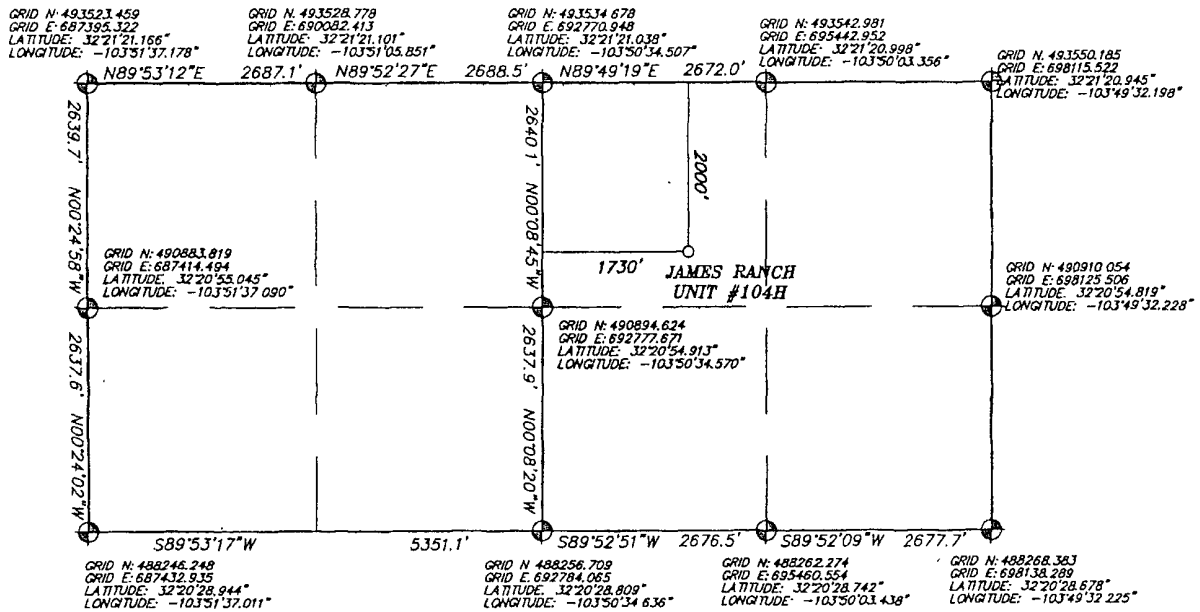
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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 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. Signature: <i>Valerie Truax</i> Date: 01/13/10 Printed Name: Valerie Truax	
		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. JUNE 17, 2009 Date Surveyed Signature & Seal of Professional Surveyor: W.O. No. 21200 Certificate No. Gary L. Jones 7977 BASIN SURVEYS	

BOTTOM HOLE LOCATION PER BOPCO Lat - N 32°21'15.46" Long - W 103°51'32.88" NMSPCE- N 492948.32 E 687766.71 (NAD-83)	BRUSHY CANYON ENTRY POINT Lat - N 32°21'02.35" Long - W 103°50'16.68" NMSPCE- N 491652.98 E 694308.49 (NAD-83)	DELAWARE ENTRY POINT Lat - N 32°21'01.22" Long - W 103°50'14.39" NMSPCE- N 491539.8 E 694505.4 (NAD-83)	SURFACE LOCATION Lat - N 32°21'01.22" Long - W 103°50'14.39" NMSPCE- N 491539.8 E 694505.4 (NAD-83)
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SECTION 36, TOWNSHIP 22 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



JAMES RANCH UNIT #104H
Located 2000' FNL and 1730' FWL
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
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: JMS 21200

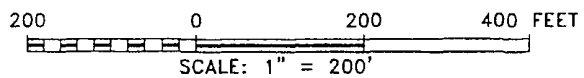
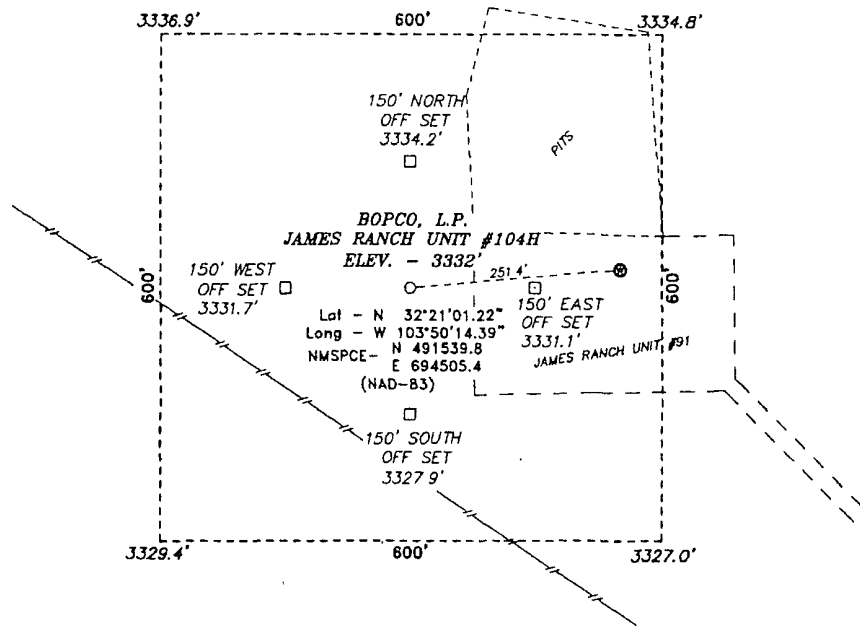
Survey Date: 06-17-2009

Scale: 1" = 2000'

Date: 06-17-2009

BOPCO, L.P.

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 0.8 MILES TO LEASE ROAD, ON LEASE
ROAD GO WEST 0.4 MILES TO LEASE ROAD, ON
LEASE ROAD GO WEST WINDING NORTHERLY 0.4
MILES TO PROPOSED LOCATION.

BOPCO, L.P.

REF: JAMES RANCH UNIT #104H / WELL PAD TOPO

THE JAMES RANCH UNIT #104H LOCATED 2000'

FROM THE NORTH LINE AND 1730' FROM THE WEST LINE OF

SECTION 30, TOWNSHIP 22 SOUTH, RANGE 30 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 21200 Drawn By: J. SMALL

Date: 06-17-2009 Disk: JMS 21200 Survey Date: 06-17-2009 Sheet 1 of 1 Sheets

A Gyrodata Directional Survey

for

BOPCO LP

Lease: James Ranch Well: 104-H, 4 1/2" Drillpipe
Location: Mcvay #5, Eddy County, New Mexico

Job Number: MD1109GMS228

Run Date: 10 Nov 2009

Surveyor: Jason Solomon

Calculation Method: MINIMUM CURVATURE

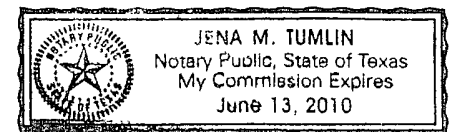
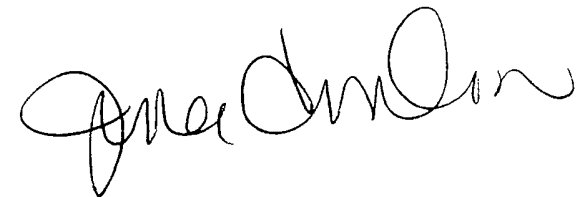
Survey surface coordinates obtained from: Directional Drilling Company
Survey Latitude: 32.350333 deg. N Longitude: 103.837083 deg. W

Azimuth Correction:
Gyro: -0.27000 deg to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location



A Gyrodata Directional Survey

BOPCO LP

Lease: James Ranch Well: 104-H, 4 1/2" Drillpipe

Location: Mcvay #5, Eddy County, New Mexico

Job Number: MD1109GMS228

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	N 0 0 E	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 TO 6702 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4 1/2" DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO MCVAY #5 RKB 19 FT							

100.00	0.31	158.99	S 21 1 E	0.31	100.00	0.3 159.0	0.25 S 0.10 E
200.00	0.19	207.87	S 27 52 W	0.23	200.00	0.7 169.9	0.65 S 0.12 E
300.00	0.25	266.53	S 86 32 W	0.23	300.00	0.8 192.7	0.81 S 0.18 W
400.00	0.27	259.73	S 79 44 W	0.03	400.00	1.1 216.3	0.87 S 0.64 W
500.00	0.46	270.96	N 89 3 W	0.20	499.99	1.6 234.6	0.90 S 1.27 W
600.00	0.42	303.28	N 56 43 W	0.25	599.99	2.1 250.6	0.69 S 1.97 W
700.00	0.13	231.46	S 51 28 W	0.40	699.99	2.4 256.6	0.56 S 2.37 W
800.00	0.17	328.36	N 31 38 W	0.23	799.99	2.6 258.7	0.51 S 2.54 W
900.00	0.09	116.06	S 63 56 E	0.25	899.99	2.6 260.7	0.42 S 2.54 W
1000.00	0.17	259.36	S 79 22 W	0.25	999.99	2.7 259.6	0.48 S 2.62 W
1100.00	0.17	323.72	N 36 17 W	0.18	1099.99	2.9 262.3	0.39 S 2.85 W
1200.00	0.20	217.03	S 37 2 W	0.30	1199.99	3.1 262.4	0.41 S 3.05 W
1300.00	0.15	342.98	N 17 1 W	0.31	1299.99	3.2 262.5	0.42 S 3.19 W
1400.00	0.14	166.18	S 13 49 E	0.29	1399.99	3.2 262.6	0.41 S 3.20 W
1500.00	0.17	233.97	S 53 58 W	0.17	1499.99	3.3 259.3	0.62 S 3.29 W
1600.00	0.24	264.46	S 84 28 W	0.13	1599.99	3.7 258.6	0.73 S 3.62 W
1700.00	0.06	134.50	S 45 30 E	0.28	1699.99	3.9 258.3	0.78 S 3.79 W
1800.00	0.18	193.71	S 13 43 W	0.16	1799.99	3.9 255.6	0.97 S 3.79 W
1900.00	0.11	312.63	N 47 22 W	0.25	1899.99	4.0 254.8	1.06 S 3.90 W
2000.00	0.16	70.31	N 70 19 E	0.23	1999.99	4.0 256.1	0.95 S 3.84 W

A Gyrodata Directional Survey

BOPCO LP

Lease: James Ranch Well: 104-H, 4 1/2" Drillpipe

Location: Mcvay #5, Eddy County, New Mexico

Job Number: MD1109GMS228

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2100.00	0.13	253.11	S 73 7 W	0.29	2099.99	3.9 256.2	0.93 S 3.81 W
2200.00	0.18	215	N 2 9 E	0.25	2199.99	4.0 258.3	0.81 S 3.91 W
2300.00	0.10	200.80	S 20 48 W	0.28	2299.99	4.0 259.4	0.74 S 3.94 W
2400.00	0.14	277.46	N 82 32 W	0.15	2399.99	4.2 258.9	0.80 S 4.09 W
2500.00	0.18	62.44	N 62 26 E	0.31	2499.99	4.1 260.1	0.71 S 4.07 W
2600.00	0.35	159.03	S 20 58 E	0.41	2599.99	3.9 256.4	0.93 S 3.83 W
2700.00	0.56	150.08	S 29 55 E	0.22	2699.98	3.8 244.8	1.63 S 3.47 W
2800.00	0.36	140.48	S 39 31 E	0.21	2799.98	3.8 232.8	2.30 S 3.03 W
2900.00	0.78	144.00	S 36 0 E	0.42	2899.97	3.9 218.1	3.09 S 2.43 W
3000.00	1.20	151.18	S 28 49 E	0.44	2999.96	4.8 198.5	4.56 S 1.52 W
3100.00	1.48	145.16	S 34 50 E	0.31	3099.93	6.5 182.5	6.54 S 0.28 W
3200.00	0.71	144.73	S 35 16 E	0.77	3199.91	8.1 174.3	8.10 S 0.81 E
3300.00	0.67	160.08	S 19 55 E	0.19	3299.91	9.3 171.5	9.16 S 1.37 E
3400.00	0.76	150.69	S 29 19 E	0.15	3399.90	10.5 169.6	10.29 S 1.90 E
3500.00	0.66	142.16	S 37 50 E	0.15	3499.89	11.6 167.2	11.32 S 2.57 E
3600.00	0.36	189.09	S 9 5 W	0.49	3599.89	12.4 166.6	12.09 S 2.88 E
3700.00	0.37	213.24	S 33 14 W	0.15	3699.88	12.9 168.2	12.67 S 2.65 E
3800.00	0.15	198.54	S 18 32 W	0.23	3799.88	13.3 169.5	13.06 S 2.43 E
3900.00	0.24	156.67	S 23 20 E	0.16	3899.88	13.6 169.5	13.38 S 2.47 E
4000.00	0.34	186.77	S 6 46 W	0.18	3999.88	14.1 169.7	13.86 S 2.52 E
4100.00	0.16	226.85	S 46 51 W	0.24	4099.88	14.5 170.5	14.25 S 2.38 E
4200.00	0.25	217.79	S 37 47 W	0.10	4199.88	14.7 171.6	14.52 S 2.15 E
4300.00	0.27	243.83	S 63 50 W	0.12	4299.88	14.9 173.1	14.80 S 1.80 E
4400.00	0.22	244.47	S 64 28 W	0.05	4399.88	15.1 174.6	14.98 S 1.42 E

A Gyrodata Directional Survey

BOPCO LP

Lease: James Ranch Well: 104-H, 4 1/2" Drillpipe

Location: Mcvay #5, Eddy County, New Mexico

Job Number: MD1109GMS228

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4500.00	0.20	180.12	S 0 7 W	0.22	4499.88	15.3 175.3	15.24 S 1.24 E
4600.00	0.38	192.39	S 12 23 W	0.19	4599.88	15.8 175.7	15.74 S 1.17 E
4700.00	0.50	194.46	S 14 28 W	0.12	4699.87	16.5 176.6	16.49 S 0.99 E
4800.00	0.21	236.73	S 56 44 W	0.37	4799.87	17.0 177.5	17.01 S 0.73 E
4900.00	0.29	204.82	S 24 49 W	0.16	4899.87	17.3 178.4	17.34 S 0.47 E
5000.00	0.37	210.66	S 30 40 W	0.09	4999.87	17.8 179.4	17.85 S 0.20 E
5100.00	0.40	264.22	S 84 13 W	0.35	5099.87	18.2 181.0	18.16 S 0.31 W
5200.00	0.30	223.06	S 43 4 W	0.26	5199.87	18.4 182.6	18.39 S 0.84 W
5300.00	0.27	229.23	S 49 14 W	0.04	5299.86	18.8 183.6	18.73 S 1.19 W
5400.00	0.13	264.77	S 84 46 W	0.18	5399.86	19.0 184.5	18.90 S 1.49 W
5500.00	0.31	289.09	N 70 55 W	0.20	5499.86	18.9 185.6	18.82 S 1.85 W
5600.00	0.19	270.17	N 89 50 W	0.14	5599.86	18.9 186.9	18.73 S 2.28 W
5700.00	0.31	226.06	S 46 4 W	0.22	5699.86	19.1 187.9	18.92 S 2.64 W
5800.00	0.49	225.94	S 45 56 W	0.18	5799.86	19.7 189.2	19.40 S 3.14 W
5900.00	0.47	214.68	S 34 41 W	0.10	5899.86	20.4 190.4	20.04 S 3.68 W
6000.00	0.78	210.60	S 30 36 W	0.31	5999.85	21.4 191.5	20.96 S 4.26 W
6100.00	0.83	206.94	S 26 56 W	0.07	6099.84	22.7 192.5	22.19 S 4.93 W
6200.00	0.93	218.84	S 38 50 W	0.21	6199.83	24.2 193.8	23.47 S 5.77 W
6300.00	0.83	223.99	S 43 59 W	0.13	6299.82	25.5 195.4	24.62 S 6.78 W
6400.00	0.98	221.43	S 41 26 W	0.16	6399.80	27.0 196.9	25.78 S 7.85 W
6500.00	1.00	214.36	S 34 22 W	0.12	6499.79	28.6 198.2	27.15 S 8.91 W
6600.00	1.26	210.18	S 30 11 W	0.27	6599.77	30.5 199.1	28.82 S 9.96 W
6700.00	1.63	203.48	S 23 29 W	0.41	6699.74	33.0 199.6	31.07 S 11.07 W
6702.00	1.50	201.61	S 21 37 W	6.98	6701.74	33.0 199.6	31.12 S 11.10 W



Gyrodata Incorporated

3811 S Co Rd 1285

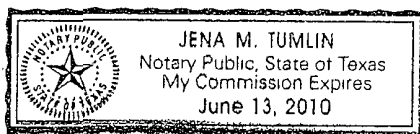
Odessa, TX 79765

432/561-8458

Fax 432/563-7982

State of Texas
County of Midland

I, Jena Tumlin, certify that; I am employed by Gyrodata Inc.; that I am authorized and qualified to review the Rate Gyroscopic Multishot survey from a depth of 0 feet to a depth of 6702 feet conducted on the day(s) of 11/10/09 through 11/10/09; that this survey was conducted at the request of Bass Enterprises (Bobco) for the James Ranch Well No. 104-H in Eddy County, New Mexico; that the data is true, correct, complete, and within the limitations of the tool as set forth by Gyrodata Inc; that I am authorized and qualified to make this report; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Gyrodata Inc.



A handwritten signature of Jena Tumlin in cursive script, written over a horizontal line.

Jena Tumlin
Operations

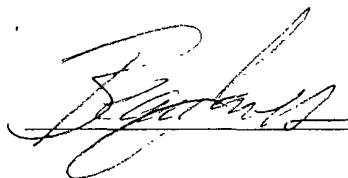
INTEQ

2105 MARKET STREET
MIDLAND, TX 79703
24 HR (432) 694-9517

STATE OF NEW MEXICO

COUNTY OF

I, **BEAU JONES**, DD Field Coordinator certify that I am employed by INTEQ ; did conduct or supervise on the day(s) of **Nov 10, 2009** through **Nov 26, 2009** the taking of MWD surveys from a depth of **6,702** to a depth of **14,132** that the data is true, correct, complete and within the limitations of the tool as set forth by Baker Hughes INTEQ ; that I am authorized and qualified to make this report; that this survey was conducted at the request of **BOPCO, L.P.** for the **JAMES RANCH UNIT 104H** Well, API No. **30-015-37271** in **EDDY** County, NM, and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by INTEQ.





BOPCO, L.P.

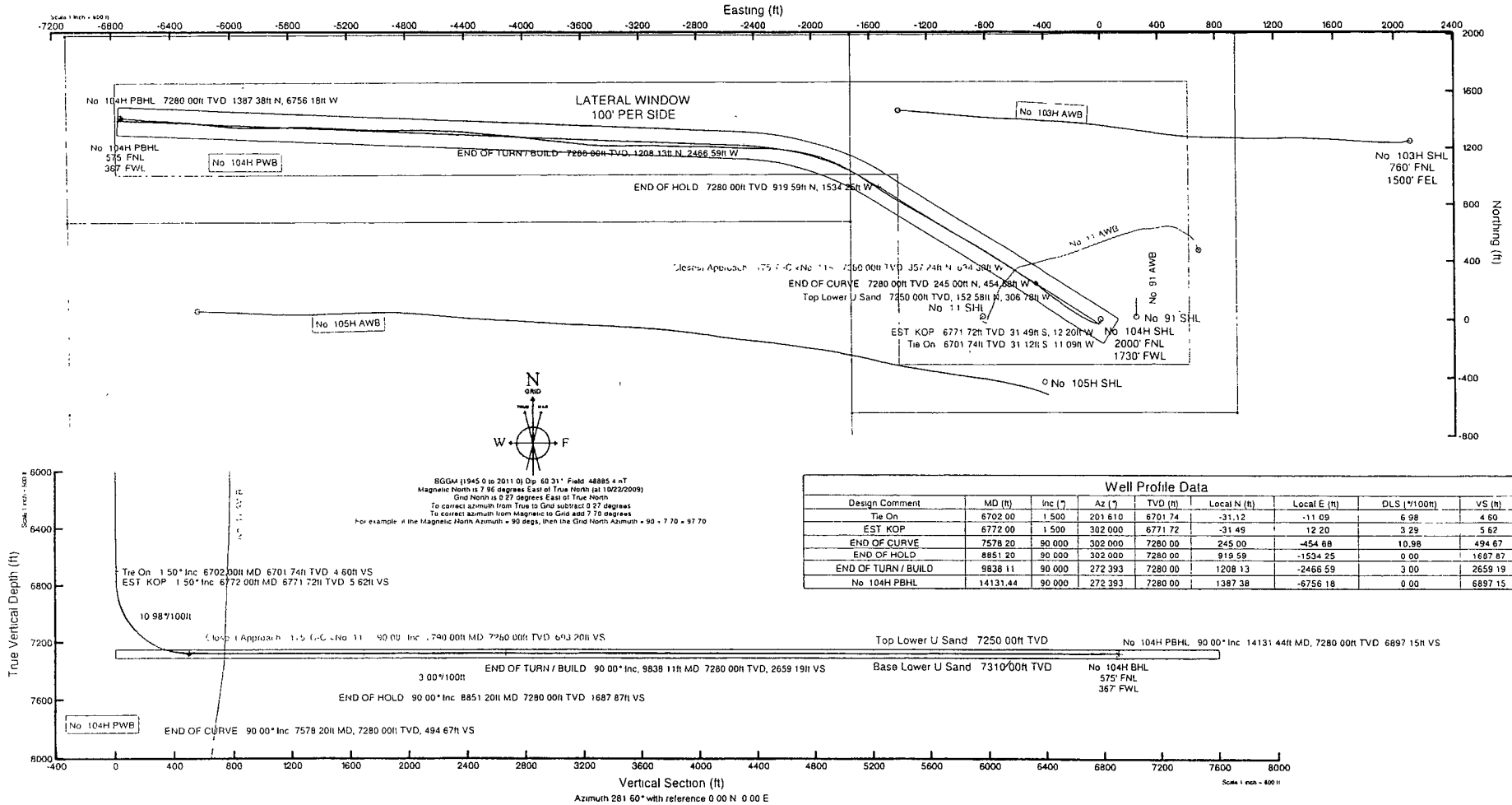
Location Eddy County, NM
Field Quahada Ridge, S E (Delaware) Field
Facility James Ranch Unit No. 104H

Slot No 104H SHL
Well No 104H
Wellbore No. 104H PWB



Plot reference wellpath is Plan #5, Rev 1 Vs. Actual - FINAL -

True vertical depths are referenced to Rig on No. 104H SHL (RT)	Grid System NAD83 / TM New Mexico State Planes - Eastern Zone (3001) US feet
Measured depths are referenced to Rig on No. 104H SHL (RT)	North Reference - Grid north
Rig on No. 104H SHL (RT) to Mean Sea Level 3335 feet	Scale - True distance
Mean Sea Level to Mud line (Facility James Ranch Unit No. 104H) 3316 feet	Depths are in feet
Coordinates are in feet referenced to Facility Center	Created by Victor Hernandez on 11/03/2009





Actual Wellpath Report

No. 104H AWP

Page 1 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 104H SHL
Area	Eddy County, NM	Well	No. 104H
Field	Quahada Ridge, S.E. (Delaware) Field	Wellbore	No. 104H AWB
Facility	James Ranch Unit No. 104H		

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	Victor Hernandez
Scale	0.999936	Report Generated	11/30/2009 at 2:07:19 PM
Convergence at slot	0.27° East	Database/Source file	WA_Midland/No. 104H_AWB.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	694505.40	491539.80	32°21'01.219"N	103°50'14.394"W
Facility Reference Pt			694505.40	491539.80	32°21'01.219"N	103°50'14.394"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. 104H SHL (RT) to Facility Vertical Datum	19.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 104H SHL (RT) to Mean Sea Level	3335.00ft
Vertical Reference Pt	Rig on No. 104H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 104H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	281.60°



Actual Wellpath Report

No. 104H AWP

Page 2 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 104H SHL
Area	Eddy County, NM	Well	No. 104H
Field	Quahada Ridge, S.E. (Delaware) Field	Wellbore	No. 104H AWB
Facility	James Ranch Unit No. 104H		

WELLPATH DATA (168 stations)									
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
0 00	0 000	158.990	0 00	0.00	0 00	0.00	694505.40	491539.80	0 00
100 00	0 310	158.990	100 00	-0.15	-0.25	0.10	694505.50	491539.55	0.31
200 00	0 190	207.870	200.00	-0.25	-0.65	0.12	694505.52	491539.15	0.23
300 00	0 250	266.530	300 00	0.01	-0.81	-0.18	694505.22	491538.99	0.22
400 00	0 460	270.960	400.00	1.05	-0.90	-1.26	694504.14	491538.90	0.20
500 00	0 420	303.280	500.00	1.79	-0.69	-1.97	694503.43	491539.11	0.25
600 00	0 130	231.460	600.00	2.20	-0.56	-2.36	694503.04	491539.24	0.40
700 00	0 170	328.360	700.00	2.38	-0.51	-2.53	694502.87	491539.29	0.23
800 00	0 170	259.360	800.00	2.46	-0.48	-2.61	694502.79	491539.32	0.25
900 00	0 170	323.720	900.00	2.71	-0.39	-2.85	694502.55	491539.41	0.18
1000 00	0 200	217.030	1000.00	2.90	-0.41	-3.04	694502.36	491539.39	0.30
1100 00	0 150	342.980	1100.00	3.03	-0.42	-3.18	694502.22	491539.38	0.31
1200 00	0 170	233.970	1200.00	3.09	-0.62	-3.28	694502.12	491539.18	0.17
1300 00	0 240	264.460	1300.00	3.39	-0.73	-3.61	694501.79	491539.07	0.13
1400 00	0 060	134.500	1400.00	3.55	-0.78	-3.78	694501.62	491539.02	0.28
1500 00	0 180	193.710	1500.00	3.51	-0.97	-3.78	694501.62	491538.83	0.16
1600 00	0 160	70.310	1600.00	3.56	-0.95	-3.83	694501.57	491538.85	0.23
1700 00	0 130	253.110	1700.00	3.54	-0.93	-3.81	694501.59	491538.87	0.29
1800 00	0 180	2.150	1800.00	3.67	-0.81	-3.91	694501.49	491538.99	0.25
1900 00	0 100	200.800	1900.00	3.71	-0.73	-3.93	694501.47	491539.07	0.28
2000 00	0 180	62.440	2000.00	3.84	-0.71	-4.07	694501.33	491539.09	0.31
2100 00	0 350	159.030	2100.00	3.56	-0.92	-3.82	694501.58	491538.88	0.41
2200 00	0 560	150.080	2200.00	3.07	-1.63	-3.47	694501.93	491538.17	0.22
2300 00	0 360	140.480	2300.00	2.50	-2.30	-3.02	694502.38	491537.50	0.21



Actual Wellpath Report

No. 104H AWP

Page 3 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 104H SHL
Area	Eddy County, NM	Well	No. 104H
Field	Quahada Ridge, S.E. (Delaware) Field	Wellbore	No. 104H AWP
Facility	James Ranch Unit No. 104H		

WELLPATH DATA (168 stations)									
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
3000.00	1.200	151.180	2999.96	0.57	-4.56	-1.52	694503.88	491535.24	0.44
3100.00	1.480	145.160	3099.93	-1.04	-6.54	-0.28	694505.12	491533.26	0.31
3200.00	0.710	144.730	3199.91	-2.43	-8.10	0.82	694506.22	491531.70	0.77
3300.00	0.670	160.080	3299.91	-3.19	-9.16	1.38	694506.78	491530.64	0.19
3400.00	0.660	142.160	3499.89	-4.80	-11.32	2.58	694507.98	491528.48	0.15
3500.00	0.360	189.090	3599.89	-5.25	-12.09	2.88	694508.28	491527.72	0.49
3600.00	0.370	213.240	3699.88	-5.15	-12.67	2.66	694508.06	491527.14	0.15
3700.00	0.150	198.540	3799.88	-5.01	-13.06	2.44	694507.84	491526.74	0.23
3800.00	0.340	186.770	3999.88	-5.26	-13.86	2.53	694507.93	491525.94	0.18
3900.00	0.160	226.850	4099.88	-5.21	-14.25	2.39	694507.79	491525.55	0.24
4000.00	0.250	217.790	4199.88	-5.03	-14.52	2.15	694507.55	491525.28	0.10
4100.00	0.270	243.830	4299.88	-4.75	-14.80	1.81	694507.21	491525.00	0.12
4200.00	0.200	180.120	4499.88	-4.29	-15.24	1.25	694506.65	491524.56	0.22
4300.00	0.380	192.390	4599.88	-4.32	-15.74	1.18	694506.58	491524.06	0.19
4400.00	0.500	194.460	4699.87	-4.29	-16.49	1.00	694506.40	491523.31	0.12
4500.00	0.210	236.730	4799.87	-4.14	-17.01	0.74	694506.14	491522.79	0.37
4600.00	0.370	210.660	4999.87	-3.79	-17.85	0.21	694505.61	491521.95	0.09
4700.00	0.400	264.220	5099.87	-3.35	-18.16	-0.31	694505.09	491521.64	0.35
4800.00	0.300	223.060	5199.87	-2.88	-18.39	-0.83	694504.57	491521.41	0.26
4900.00	0.270	229.230	5299.86	-2.60	-18.73	-1.19	694504.21	491521.07	0.04
5000.00	0.310	289.090	5499.86	-1.97	-18.82	-1.85	694503.55	491520.98	0.20
5100.00	0.190	270.170	5599.86	-1.54	-18.73	-2.27	694503.13	491521.07	0.14
5200.00	0.310	226.060	5699.86	-1.23	-18.92	-2.63	694502.77	491520.89	0.22
5300.00	0.490	225.940	5799.86	-0.83	-19.40	-3.13	694502.27	491520.40	0.18



Actual Wellpath Report

No. 104H AWP

Page 4 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 104H SHL
Area	Eddy County, NM	Well	No. 104H
Field	Quahada Ridge, S.E. (Delaware) Field	Wellbore	No. 104H AWB
Facility	James Ranch Unit No. 104H		

WELLPATH DATA (168 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
6000.00	0.780	210.600	5999.85	-0.05	-20.96	-4.25	694501.15	491518.84	0.31
6100.00	0.830	206.940	6099.84	0.36	-22.19	-4.93	694500.47	491517.61	0.07
6200.00	0.930	218.840	6199.83	0.93	-23.47	-5.77	694499.63	491516.33	0.21
6300.00	0.830	223.990	6299.82	1.69	-24.62	-6.78	694498.62	491515.18	0.13
6500.00	1.000	214.360	6499.79	3.26	-27.14	-8.90	694496.50	491512.66	0.12
6600.00	1.260	210.180	6599.77	3.95	-28.82	-9.95	694495.45	491510.99	0.27
6700.00	1.630	203.480	6699.74	4.59	-31.07	-11.07	694494.33	491508.73	0.41
6702.00	1.500	201.610	6701.74	4.60	-31.12	-11.09	694494.31	491508.68	6.98
6773.00	2.000	215.000	6772.70	5.12	-33.09	-12.02	694493.38	491506.72	1.46
6804.00	3.500	255.700	6803.67	6.19	-33.76	-13.25	694492.15	491506.04	7.66
6835.00	5.400	281.000	6834.58	8.50	-33.72	-15.60	694489.80	491506.08	8.67
6865.00	7.900	287.600	6864.37	11.96	-32.82	-18.95	694486.45	491506.98	8.70
6928.00	15.600	284.400	6926.04	24.58	-29.43	-31.14	694474.27	491510.37	13.26
6959.00	20.300	286.200	6955.52	34.11	-26.89	-40.34	694465.06	491512.91	15.26
6991.00	24.900	288.800	6985.06	46.33	-23.17	-52.06	694453.35	491516.63	14.71
7022.00	28.800	292.700	7012.71	60.14	-18.19	-65.13	694440.28	491521.62	13.80
7084.00	35.800	299.500	7064.97	92.23	-3.12	-94.79	694410.61	491536.68	10.72
7115.00	39.600	298.200	7089.50	110.33	6.01	-111.40	694394.01	491545.81	12.52
7147.00	43.700	298.500	7113.40	130.69	16.11	-130.11	694375.30	491555.91	12.83
7177.00	47.600	299.000	7134.37	151.19	26.43	-148.91	694356.50	491566.23	13.05
7240.00	53.500	303.100	7174.30	197.30	50.99	-190.94	694314.47	491590.79	12.64
7272.00	57.000	304.400	7192.54	221.64	65.60	-212.80	694292.62	491605.40	11.44
7304.00	61.100	305.000	7208.99	246.88	81.23	-235.35	694270.06	491621.02	12.91
7335.00	65.400	304.700	7222.94	272.31	97.04	-258.07	694247.35	491636.83	13.90



Actual Wellpath Report

No. 104H AWP

Page 5 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 104H SHL
Area	Eddy County, NM	Well	No. 104H
Field	Quahada Ridge, S.E. (Delaware) Field	Wellbore	No. 104H AWB
Facility	James Ranch Unit No. 104H		

WELLPATH DATA (168 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
7397.00	72.700	305.300	7244.98	325.42	130.33	-305.44	694199.98	491670.13	11.00
7429.00	76.400	305.600	7253.50	353.62	148.22	-330.57	694174.86	491688.01	11.60
7460.00	79.900	306.900	7259.87	381.19	166.16	-355.03	694150.40	491705.95	12.01
7491.00	82.700	305.600	7264.55	409.04	184.28	-379.74	694125.69	491724.06	9.94
7554.00	88.100	304.100	7269.64	466.69	220.21	-431.21	694074.22	491759.99	9.19
7585.00	89.400	304.100	7270.31	495.32	237.58	-456.87	694048.56	491777.36	4.19
7617.00	89.800	304.700	7270.54	524.82	255.66	-483.27	694022.16	491795.44	2.25
7649.00	88.000	304.000	7271.15	554.32	273.71	-509.68	693995.75	491813.49	6.04
7761.00	89.900	304.700	7274.33	657.38	337.28	-601.83	693903.61	491877.06	5.39
7858.00	89.800	302.700	7274.59	747.25	391.10	-682.53	693822.92	491930.87	2.06
7953.00	89.900	302.600	7274.84	835.91	442.35	-762.52	693742.93	491982.12	0.15
8048.00	89.900	301.800	7275.00	924.84	492.97	-842.90	693662.55	492032.74	0.84
8240.00	89.800	298.900	7275.59	1106.71	589.78	-1008.69	693496.78	492129.54	1.37
8336.00	89.900	303.600	7275.84	1197.09	639.57	-1090.74	693414.74	492179.33	4.90
8432.00	89.700	300.000	7276.17	1287.17	690.15	-1172.31	693333.17	492229.90	3.76
8528.00	90.400	299.600	7276.09	1378.37	737.86	-1255.62	693249.87	492277.61	0.84
8720.00	90.300	300.900	7275.00	1560.42	834.22	-1421.68	693083.82	492373.96	0.94
8815.00	90.500	303.400	7274.34	1649.37	884.76	-1502.10	693003.40	492424.51	2.64
8911.00	90.300	303.900	7273.67	1738.35	937.96	-1582.01	692923.49	492477.70	0.56
9007.00	90.500	303.400	7273.00	1827.33	991.15	-1661.92	692843.58	492530.89	0.56
9198.00	89.900	294.000	7273.17	2010.45	1080.38	-1830.55	692674.97	492620.11	3.24
9294.00	90.300	291.100	7273.00	2104.70	1117.20	-1919.20	692586.33	492656.92	3.05
9390.00	89.900	284.200	7272.83	2200.10	1146.29	-2010.62	692494.91	492686.01	7.20
9486.00	90.000	279.500	7272.92	2296.08	1165.99	-2104.55	692400.99	492705.72	4.90



Actual Wellpath Report

No. 104H AWP

Page 6 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 104H SHL
Area	Eddy County, NM	Well	No. 104H
Field	Quahada Ridge, S.E. (Delaware) Field	Wellbore	No. 104H AWB
Facility	James Ranch Unit No. 104H		

WELLPATH DATA (168 stations)									
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
9688.00	89.700	272.100	7273.34	2496.92	1186.60	-2305.36	692200.20	492726.32	3.80
9785.00	89.700	270.600	7273.85	2592.37	1188.89	-2402.33	692103.23	492728.61	1.55
9881.00	89.700	272.000	7274.35	2686.82	1191.07	-2498.30	692007.27	492730.79	1.46
9978.00	90.100	273.100	7274.52	2782.61	1195.38	-2595.20	691910.37	492735.10	1.21
10168.00	90.300	268.600	7275.02	2969.97	1202.59	-2784.99	691720.59	492742.31	5.23
10264.00	90.400	271.200	7274.43	3063.97	1202.42	-2880.98	691624.61	492742.14	2.71
10358.00	90.400	271.700	7273.78	3156.49	1204.80	-2974.95	691530.65	492744.52	0.53
10455.00	90.300	272.900	7273.18	3252.21	1208.69	-3071.87	691433.73	492748.41	1.24
10647.00	90.100	268.500	7272.17	3440.35	1209.27	-3263.82	691241.80	492748.99	1.21
10741.00	90.000	270.000	7272.09	3532.17	1208.04	-3357.80	691147.82	492747.76	1.60
10837.00	89.900	272.900	7272.18	3626.66	1210.47	-3453.76	691051.86	492750.19	3.02
10933.00	89.800	276.100	7272.43	3721.91	1218.00	-3549.46	690956.18	492757.72	3.33
11123.00	89.900	276.700	7272.84	3911.18	1239.84	-3738.19	690767.45	492779.56	0.11
11219.00	90.000	276.400	7272.93	4006.81	1250.79	-3833.57	690672.09	492790.51	0.33
11313.00	90.000	278.300	7272.93	4100.55	1262.82	-3926.79	690578.87	492802.53	2.02
11408.00	89.900	277.400	7273.01	4195.34	1275.79	-4020.90	690484.77	492815.51	0.95
11599.00	90.100	274.000	7273.18	4385.16	1293.45	-4211.05	690294.63	492833.16	0.97
11695.00	89.900	275.700	7273.18	4480.49	1301.56	-4306.70	690198.98	492841.28	1.78
11790.00	89.900	275.000	7273.34	4574.92	1310.42	-4401.29	690104.40	492850.13	0.74
11887.00	89.900	272.400	7273.51	4670.99	1316.68	-4498.08	690007.62	492856.39	2.68
12078.00	89.700	270.500	7274.01	4859.01	1321.62	-4689.01	689816.70	492861.33	1.08
12172.00	88.700	270.500	7275.32	4951.24	1322.44	-4782.99	689722.72	492862.15	1.06
12269.00	89.500	270.500	7276.84	5046.41	1323.29	-4879.98	689625.75	492863.00	0.82
12366.00	90.000	269.900	7277.27	5141.49	1323.62	-4976.97	689528.76	492863.34	0.81



Actual Wellpath Report

No. 104H AWP

Page 7 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 104H SHL
Area	Eddy County, NM	Well	No. 104H
Field	Quahada Ridge, S.E. (Delaware) Field	Wellbore	No. 104H AWB
Facility	James Ranch Unit No. 104H		

WELLPATH DATA (168 stations)									
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
12559.00	90.100	272.900	7277.01	5331.68	1329.87	-5169.85	689335.89	492869.58	0.62
12654.00	90.200	272.800	7276.77	5425.58	1334.59	-5264.73	689241.02	492874.30	0.15
12756.00	90.100	273.900	7276.50	5526.52	1340.55	-5366.55	689139.20	492880.26	1.08
12846.00	90.200	271.800	7276.26	5615.46	1345.03	-5456.44	689049.32	492884.74	2.34
13040.00	90.000	267.400	7275.92	5804.36	1339.99	-5650.31	688855.46	492879.70	0.10
13136.00	90.000	271.200	7275.92	5898.14	1338.81	-5746.29	688759.49	492878.53	3.96
13232.00	89.900	269.300	7276.01	5992.26	1339.23	-5842.28	688663.50	492878.95	1.98
13328.00	90.000	272.300	7276.09	6086.54	1340.57	-5938.26	688567.53	492880.29	3.13
13517.00	90.200	276.200	7276.42	6274.22	1356.78	-6126.52	688379.28	492896.49	0.83
13614.00	90.500	277.700	7275.83	6370.89	1368.52	-6222.81	688283.01	492908.23	1.58
13710.00	90.100	273.500	7275.33	6466.34	1377.88	-6318.32	688187.49	492917.59	4.39
13806.00	90.200	273.600	7275.07	6561.39	1383.83	-6414.14	688091.68	492923.53	0.15
13995.00	90.200	275.300	7274.41	6748.53	1395.62	-6602.76	687903.08	492935.33	2.74
14075.00	90.100	275.500	7274.21	6828.06	1403.15	-6682.40	687823.44	492942.85	0.28
14132.00	90.100	275.500	7274.11	6884.74	1408.61	-6739.14	687766.71	492948.32	0.00



Actual Wellpath Report

No. 104H AWP

Page 8 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 104H SHL
Area	Eddy County, NM	Well	No. 104H
Field	Quahada Ridge, S.E. (Delaware) Field	Wellbore	No. 104H AWB
Facility	James Ranch Unit No. 104H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 104H PBHL		7280.00	1387.38	-6756.18	687749.67	492927.09	32°21'15.250"N	103°51'33.077"W	point

WELLPATH COMPOSITION Ref Wellbore: No. 104H AWB Ref Wellpath: No. 104H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6702.00	Gyrodata standard - Drop gyro or Multi-shot	GYRO <100 - 6702>	No 104H AWB
6702.00	14075.00	NaviTrak (Standard)	ATKe <6741 - 14075>	No 104H AWB
14075.00	14132.00	Bhnd Drilling (std)	Projection to bit	No 104H AWB