

BOPCO, L.P.  
201 MAIN ST.  
FORT WORTH, TEXAS 76102-3131  
817/390-8400

July 6, 2010

**FEDERAL EXPRESS**

Bureau of Land Management  
Carlsbad District Office  
620 E. Green St.  
Carlsbad, New Mexico 88220  
Attn: Mr. Wesley Ingram

New Mexico State Land Office  
Commissioner of Public Lands  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501  
Attention: Mr. Pete Martinez

New Mexico Oil Conservation Division  
1220 St. Francis  
Santa Fe, New Mexico 87505  
Attention: Mr. William Jones

Re: Commercial Determination  
James Ranch Unit Well No. 104 H  
Delaware Formation  
Eddy County, New Mexico

Gentlemen:

Please find attached hereto one (1) copy of Bass' commercial determination worksheets and exhibits which indicate that the subject well is a commercial well in the Delaware Formation. Please indicate your concurrence to the above Commercial Determination. Upon your execution hereof, Bass will submit a participating area for the well.

Thank you very much and should you have any questions or comments in regard to the attached commercial determination, please do not hesitate to contact the undersigned.

Very truly yours,



Brad Glasscock

Bureau of Land Management

New Mexico State Land Office

New Mexico Oil Conservation Division

By: \_\_\_\_\_

By: \_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

Its: \_\_\_\_\_

Its: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

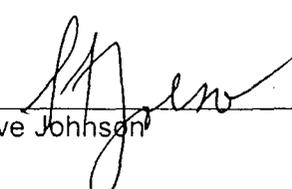
**INTER-OFFICE MEMORANDUM**  
MIDLAND OFFICE

April 8, 2010

**TO:** FORT WORTH, FILES  
**FOR:** FRANK McCREIGHT  
**FROM:** STEVE F. JOHNSON  
**RE:** COMMERCIAL DETERMINATION  
JAMES RANCH UNIT #104H  
QUAHADA RIDGE SE (DELAWARE) FIELD  
EDDY COUNTY, NEW MEXICO  
FILE: 100-WF: JRU104HCD.DOC

Attached are the worksheets and necessary exhibits for the subject well to be submitted for commercial determination. The James Ranch Unit #104H was drilled in 2009 to a measured depth of 14,132' and was completed in the Delaware. The well is producing from Delaware perforations 7,715-14,065'. On test 1/28/2010 the well pumped at the rate of 1003 BOPD, 565 MCFPD, and 955 BWPD. This well is expected to recover approximately 469.189 MBOE from the current completion.

The most recent price file from Fort Worth was utilized and the oil price as adjusted by - \$3.44/BO plus a \$.57/mcf transportation fee. An operating cost of \$13,000/mo for 18 months and \$6,500 thereafter was also incorporated in this evaluation. The James Ranch Unit #104 will be a commercial well and should be incorporated into a participating area.

  
\_\_\_\_\_  
Steve Johnson

RSD

RSD/cdp

cc: Ross Sutton  
George Hillis  
Brad Glasscock

**WORKSHEET FOR COMMERCIAL DETERMINATION  
AND PARTICIPATING AREA IN FEDERAL UNITS**

**WELL DATA**

WELL James Ranch Unit #104H FORMATION DELAWARE  
 LOCATION F UNIT, 2000 FEET FROM NORTH LINE & 1730 FEET FROM WEST LINE  
 SECTION 36 TOWNSHIP 22S RANGE 30E COUNTY Eddy NEW MEXICO  
 SPUD DATE 10/31/2009 COMPLETION DATE 1/14/2010 INITIAL PRODUCTION 1/14/2010  
 PERFORATIONS 7715-14065

\* BHL UL D 575' FNL 367' FWL SEC 35, T22S R30E  
 STIMULATION:

ACID \_\_\_\_\_

FRACTURE 7715-14065' - See Attached sheets

POTENTIAL (1/28/2010): 1003 BOPD, 565 MCFPD, 955 BWPD

(Attach Copy of C-105. Attach Copy of Wellbore Sketch of Completed Well.)

**VOLUMETRIC CALCULATION**

	SANDS PERFORATED	SANDS NOT PERFORATED BUT POTENTIALLY PRODUCTIVE
Area (A) proration unit size, acres	<u>320</u>	_____
Porosity (Φ), %	<u>12%</u>	_____
Water saturation (Sw), %	<u>55%</u>	_____
Net Thickness (H), ft.	<u>86</u>	_____
Temperature (T), Fahrenheit	<u>120</u>	_____
Bottom Hole pressure (P), psia	<u>3,317</u>	_____
Recovery factor (RF), %	<u>17%</u>	_____
Recoverable Oil, Bbls *(See eq. below)	<u>883,891</u>	_____

\*Sometimes unable to match performance due to volumetric uncertainty.

Formula =  $(7758) (A) (H) (\Phi) (1-S_w) (1/B_o) (RF)$

B<sub>o</sub> = 1.50

Continued

## PERFORMANCE DATA

(If sufficient history exists, attach plot of oil production rate v time.)

CUMULATIVE PRODUCTION TO	<u>2/28/2010</u>	<u>31,742</u>	BBL OIL	<u>24,991</u>	MCF
INITIAL RATE (qi)		<u>916</u>			
ECONOMIC LIMIT (ql)		<u>5</u>			
HYPERBOLIC DECLINE RATE, dy		<u>n = .95, d = 98%/yr</u>			
REMAINING OIL (Q) =		<u>360,046</u>			
ULTIMATE RECOVERABLE OIL (BO)		<u>391,788</u>			

(Attach plot showing proration unit and participating area.)

## ECONOMIC

GROSS WELL COST \$3,184,592 (to the depth of formation completed)COMPLETION COST \$2,447,508GROSS TOTAL COST \$5,632,100

<u>YEAR</u>	<u>GROSS OIL MBBLS</u>	<u>BFIT NET INCOME (\$M)</u>	<u>OPERATING COST (\$M) INCL SEV &amp; AD VAL TAX</u>	<u>5% NET BFIT DISCOUNTED CASH FLOW</u>
ZERO				
1	<u>140.244</u>	<u>10885.0</u>	<u>1425.0</u>	<u>5765.4</u>
2	<u>46.534</u>	<u>3826.9</u>	<u>510.7</u>	<u>3078.3</u>
3	<u>28.432</u>	<u>2366.0</u>	<u>336.7</u>	<u>1790.3</u>
4	<u>20.329</u>	<u>1704.2</u>	<u>264.0</u>	<u>1208.0</u>
5	<u>15.812</u>	<u>1335.7</u>	<u>223.5</u>	<u>887.2</u>
6	<u>12.915</u>	<u>1102.8</u>	<u>191.8</u>	<u>691.1</u>
7	<u>10.928</u>	<u>943.0</u>	<u>158.8</u>	<u>565.9</u>
8	<u>9.417</u>	<u>822.5</u>	<u>148.4</u>	<u>462.7</u>
9	<u>8.286</u>	<u>733.5</u>	<u>140.7</u>	<u>387.0</u>
10	<u>7.392</u>	<u>660.8</u>	<u>134.4</u>	<u>326.9</u>
REMAINDER	<u>88.698</u>	<u>8007.5</u>	<u>2750.2</u>	<u>2125.2</u>
TOTAL	<u>388.987</u>	<u>32387.9</u>	<u>6284.1</u>	<u>17288.0</u>

WELL IS COMMERCIAL

# ECONOMIC PROJECTION

Date : 4/8/2010

Lior:

3:49:34PM

Project Name : Exp of Risked 2009 New wells databa

As Of Date : 01/01/2010

Lease Name : JRU 104-H

Partner : ALL CASES

Discount Rate (%) : 5.00

Reserv Cat. : Proved Producing

Case Type : LEASE CASE

Field : LOS MEDANOS

Archive Set : BUDGET2009

JRU 104-H

Operator : BOPCO

Cum Oil (Mbbbl) : 0.00

Reservoir : DELAWARE

Cum Gas (MMcf) : 0.00

Co., State : EDDY, NM

Risk: 0.000 Inherited/ 0.000 Compounded

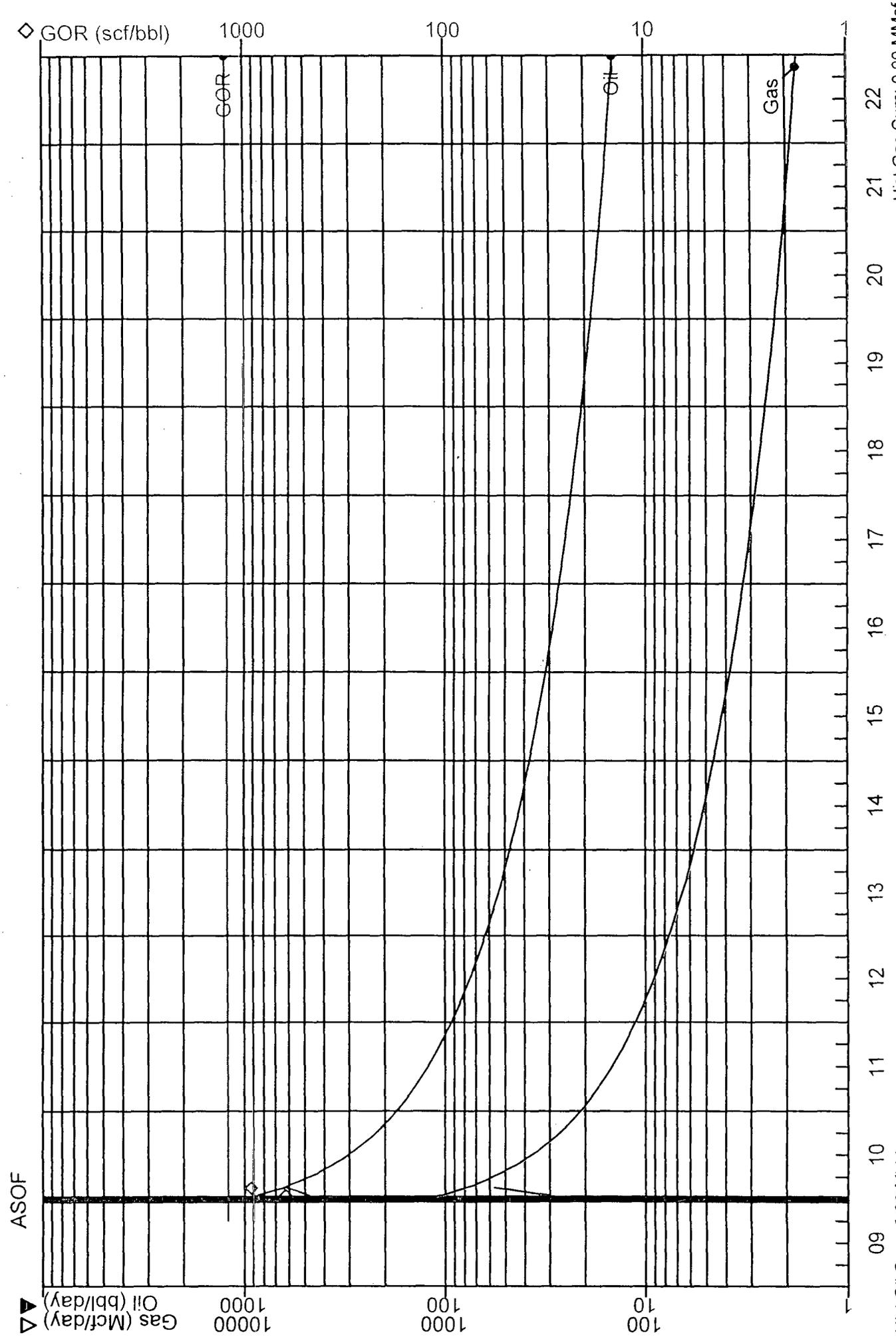
Year	Gross Wet Production		Gross Dry Gas & NGL			Sales		
	Oil (Mbbbl)	Wet Gas (MMcf)	Dry Gas (MMcf)	NGL (Mgal)	Oil (Mbbbl)	Gas (MMcf)	NGL (Mgal)	
2010	123.594	135.347	87.895	577.933	107.156	76.205	501.068	
2011	45.508	54.760	35.561	233.824	39.456	30.831	202.726	
2012	27.671	33.351	21.658	142.410	23.991	18.778	123.470	
2013	19.743	23.835	15.478	101.775	17.117	13.420	88.239	
2014	15.338	18.547	12.044	79.195	13.298	10.442	68.662	
2015	12.518	15.161	9.846	64.739	10.853	8.536	56.129	
2016	10.587	12.843	8.341	54.841	9.179	7.231	47.547	
2017	9.120	11.081	7.196	47.316	7.907	6.239	41.023	
2018	8.021	9.762	6.340	41.685	6.954	5.496	36.141	
2019	7.154	8.721	5.664	37.241	6.203	4.910	32.288	

Rem	112.533	141.000	91.565	602.070	97.566	79.387	521.995
Total	391.788	464.410	301.588	1,983.031	339.680	261.477	1,719.288
Ult.	391.788	464.410					

Year	Average Price			Net Revenue			
	Oil (\$/bbl)	Gas (\$/Mcf)	NGL (\$/gal)	Oil (M\$)	Gas (M\$)	NGL (M\$)	Total (M\$)
2010	81.33	4.50	0.83	8,714.61	343.01	415.89	9,473.51
2011	86.03	5.34	0.83	3,394.42	164.71	168.26	3,727.40
2012	86.72	5.78	0.83	2,080.39	108.58	102.48	2,291.45
2013	87.14	6.05	0.83	1,491.59	81.25	73.24	1,646.07
2014	87.58	6.34	0.83	1,164.69	66.21	56.99	1,287.89
2015	88.30	6.67	0.83	958.31	56.94	46.59	1,061.83
2016	88.97	7.01	0.83	816.69	50.67	39.46	906.82
2017	89.84	7.34	0.83	710.30	45.81	34.05	790.17
2018	90.82	7.70	0.83	631.59	42.31	30.00	703.90
2019	91.53	7.97	0.83	567.75	39.13	26.80	633.68
Rem	91.53	8.62	0.83	8,930.24	683.98	433.26	10,047.47
Total	86.73	6.43	0.83	29,460.59	1,682.59	1,427.01	32,570.20

Year	Expenditures				Future Net Revenue			
	Total Sev Taxes (M\$)	Total Adv Taxes (M\$)	Net Investments (M\$)	Total Net Opcosts (M\$)	Annual (M\$)	Cumulative (M\$)	Disc. Ann. CF 5.00 % (M\$)	Cum. Disc. CF 5.00 % (M\$)
2010	659.79	18.34	5,632.10	479.96	2,683.32	2,683.32	2,502.68	2,502.68
2011	268.67	7.45	0.00	220.07	3,231.21	5,914.52	2,999.48	5,502.16
2012	165.29	4.58	0.00	156.50	1,965.08	7,879.61	1,733.65	7,235.80
2013	118.79	3.29	0.00	134.02	1,389.97	9,269.58	1,165.92	8,401.72
2014	92.98	2.58	0.00	121.53	1,070.80	10,340.38	854.19	9,255.91
2015	76.70	2.12	0.00	107.76	875.24	11,215.62	663.96	9,919.88
2016	65.53	1.81	0.00	87.31	752.16	11,967.79	542.76	10,462.63
2017	57.13	1.58	0.00	86.02	645.43	12,613.22	442.97	10,905.60
2018	50.92	1.41	0.00	85.06	566.52	13,179.74	369.83	11,275.43
2019	45.85	1.27	0.00	84.30	502.26	13,682.00	311.90	11,587.34
Rem	728.23	20.09	0.00	3,754.30	5,544.85	5,544.85	2,076.61	2,076.61
Total	2,329.88	64.54	5,632.10	5,316.84	19,226.85	19,226.85	13,663.94	13,663.94

Major Phase :	Oil	Working Int :	1.00000000	Present Worth Profile (M\$)	
Perfs :	0 0	Revenue Int :	0.86700000	1.00% :	17,700.90
Initial Rate :	14,718.00 bbl/month	Disc. Initial Invest. (m\$) :	5,632.095	5.00% :	13,663.94
Abandonment :	79.02 bbl/month	Internal ROR (%) :	128.78	10.00% :	10,840.31
Initial Decline :	98.46 % year b = 0.950	ROI Investment (disc/undisc) :	3.43 / 4.41	15.00% :	9,038.58
Beq Ratio :	0.63 Mcf/bbl	Years to Payout :	0.53	20.00% :	7,738.74
End Ratio :	1.32 Mcf/bbl	Abandonment Date :	11/08/2066	25.00% :	6,731.80
Forecast Start :	01/01/2010			30.00% :	5,915.43
		Working Interest :	1.00000000	40.00% :	4,647.69
		Revenue Interest :	0.86700000	50.00% :	3,688.23
		Rev. Date :		60.00% :	2,923.89



Hist Gas Cum: 0.00 MMcf  
Gas EUR: 464.41 MMcf

Hist Oil Cum: 0.00 Mbbl  
Oil EUR: 391.79 Mbbl

RECEIVED

OPERATOR'S COPY

Correct

Form 3160-4  
(April 2007)

MAR 26 2010

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

BOPCO WYBEO DOWNS DETENTION OR RECOMPLETION REPORT AND LOG

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
b. Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resrv.,  
Other \_\_\_\_\_

5. Lease Serial No.  
NM 02952A

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.  
NMNM70965F

8. Lease Name and Well No.  
James Ranch Unit 104H

9. API Well No.  
30-015-37271

10. Field and Pool, or Exploratory  
Quahada Ridge SE (Delaware)

11. Sec., T., R., M., on Block and  
Survey or Area Sec 36, T22S, R30E

12. County or Parish Eddy 13. State NM

2. Name of Operator  
BOPCO, L.P.

3. Address P.O. Box 2760 Midland TX 79702 3.a Phone No. (Include area code) (432)683-2277

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At Surface UL F, 2000' FNL, 1730' FWL, Lat N 32.35034, Long W 103.83733  
At top prod. interval reported below  
At total depth UL D, 575' FNL, 367' FWL, Sec 35

14. Date Spudded 10/31/2009 15. Date T.D. Reached 12/03/2009 16. Date Completed  D & A  Ready to Prod. 01/14/2010

17. Elevations (DF, RKB, RT, GL)\*  
3334.92' GL

18. Total Depth: MD 14,132' TVD 7274" 19. Plug Back T.D.: MD TVD

20. Depth Bridge Plug Set: MD TVD

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)  
GR Down Log Flipped; PPC Borehole Graphics; Power Positioning Caliper  
GR

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit analysis)  
Directional Survey?  No  Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8" 4-48#		0	620' TVD		535 sxs		0' Circ	
12-1/4"	9-5/8" 5-35#		0	3829' TVD		1350 sxs		0' Circ	
8-3/4"	7" P-110 23#		0	7700'	5018'	380 sxs Stg I		5018' DV	
						625 sxs Stg II		0' Circ	
6-1/8"	4-1/2" P-110 11.6#		6786'	14,082'					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	6760'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Delaware	3808'	7274' TVD	See attachment for details			
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	
	See attachment for details

Submit commercial well determination within 6 months of completion date.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/14/10	01/28/10	24	→	1003	565	955	40	.80	Pumping
Choice Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
31/64"	SI 450	360	→				563.31	Producing	

Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
	SI		→						

ACCEPTED FOR RECORD  
MAR 23 2010  
/s/ Chris Walls  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Bell Canyon	3,834'	4,742'	Sandstone	T/Rustler	309'
Cherry Canyon	4,742'	6,044'	Sandstone	T/Salt	606'
Brushy Canyon	6,044'	not reach	Sandstone	T/Delaware Sands	3808'

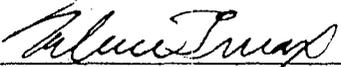
32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)   
  Geological Report   
  DST Report   
  Directional Survey  
 Sundry Notice for plugging and cement verification   
  Core Analysis   
  Other

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Valerie Truax Title Regulatory Admin Assistant

Signature  Date 02/01/2010

Title 18 U.S.C. Section 101 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 and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

JRU #104 3160-4

**26. Perforation Record (Pre perf sleeve)**

Perforation Interval	Perf Status
7,715'-16'; 7,973'-74'	Producing
8,317'-18'; 8,760'-61'	Producing
9,155'-56'; 9,539'-40'	Producing
9,938'-40'; 10,293'-94'	Producing
10,692'-94'; 11,050'-51	Producing
11,457'-58'; 11,756'-57'	Producing
12,053'-54'; 12,500'-01'	Producing
12,949'-50'; 13,353'-54'	Producing
13,711'-13'; 14,064'-65'	Producing

**27. Acid, Shot, Fracture, Cement, Squeeze, Etc.**

Depth Interval	Amount & Kind Material Used
7,715'-7,716'	Frac w/ 672 gals 25# linear, 49,501 gals YF125ST w/ 148,710# 16/30 Ottawa sand
7,973'-7,974'	Frac w/ 5,586 gals 25# linear, 51,382 gals YF125ST w/ 156,330# 16/30 Ottawa sand
8,317'-8,318'	Acidize w/ 630 gals 15% HCl
8,317'-8,318'	Frac w/ 8,568 gals 25# linear, 52,690 gals YF125ST w/ 155,270# 16/30 Ottawa sand
8,760'-8,761'	Acidize w/ 714 gals 15% HCl
8,760'-8,761'	Frac w/ 7,308 gals 25# linear, 50,454 gals YF125ST w/ 149,940# 16/30 Ottawa sand
9,155'-9,156'	Acidize w/ 588 gals 15% HCl
9,155'-9,156'	Frac w/ 18,270 gals 25# linear, 52,093 gals YF125ST w/ 161,040# 16/30 Ottawa sand
9,539'-9,540'	Acidize w/ 756 gals 15% HCl
9,539'-9,540'	Frac w/ 5,754 gals 25# linear, 51,754 gals YF125ST w/ 157,400# 16/30 Ottawa sand
9,938'-9,940'	Acidize w/ 1050 gals 15% HCl
9,938'-9,940'	Frac w/ 8,358 gals 25# linear, 51,715 gals YF125ST w/ 157,320# 16/30 Ottawa sand
10,293'-10,294'	Acidize w/ 924 gals 15% HCl
10,293'-10,294'	Frac w/ 7,686 gals 25# linear, 51,322 gals YF125ST w/ 155,800# 16/30 Ottawa sand
10,692'-10,694'	Frac w/ 52,145 gals YF125ST w/ 161,730# 16/30 Ottawa sand
11,050'-11,051'	Acidize w/ 756 gals 15% HCl
11,050'-11,051'	Frac w/ 8,358 gals 25# linear, 51,627 gals YF125ST w/ 155,560# 16/30 Ottawa sand

11,457'-11,458'	Acidize w/ 1008 gals 15% HCl
11,457'-11,458'	Frac w/ 8,988 gals 25# linear, 51,464 gals YF125ST w/ 155,450# 16/30 Ottawa sand
11,756'-11,757'	Acidize w/ 756 gals 15% HCl
11,756'-11,757'	Frac w/ 8,022 gals 25# linear, 51,232 gals YF125ST w/ 155,942# 16/30 Ottawa sand
12,053'-12,054'	Acidize w/ 756 gals 15% HCl
12,053'-12,054'	Frac w/ 8,022 gals 25# linear, 51,554 gals YF125ST w/ 156,242# 16/30 Ottawa sand
12,500'-12,501'	Acidize w/ 756 gals 15% HCl
12,500'-12,501'	Frac w/ 10,164 gals 25# linear, 50,032 gals YF125ST w/ 155,540# 16/30 Ottawa sand
12,949'-12,950'	Acidize w/ 756 gals 15% HCl
12,949'-12,950'	Frac w/ 9,744 gals 25# linear, 51,614 gals YF125ST w/ 156,778# 16/30 Ottawa sand
13,353'-13,354'	Acidize w/ 756 gals 15% HCl
13,353'-13,354'	Frac w/ 10,248 gals 25# linear, 51,584 gals YF125ST w/ 156,513# 16/30 Ottawa sand
13,711'-13,713'	Acidize w/ 1596 gals 15% HCl
13,711'-13,713'	Frac w/ 8,778 gals 25# linear, 51,685 gals YF125ST w/ 157,055# 16/30 Ottawa sand
14,064'-14,065'	Acidize w/ 630 gals 15% HCl
14,064'-14,065'	Frac w/ 2940 gals 25# linear, 51,140 gals YF125ST w/ 133,850# 16/30 Ottawa sand

DISTRICT I  
1626 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 87506

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
GRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3316'

Surface Location

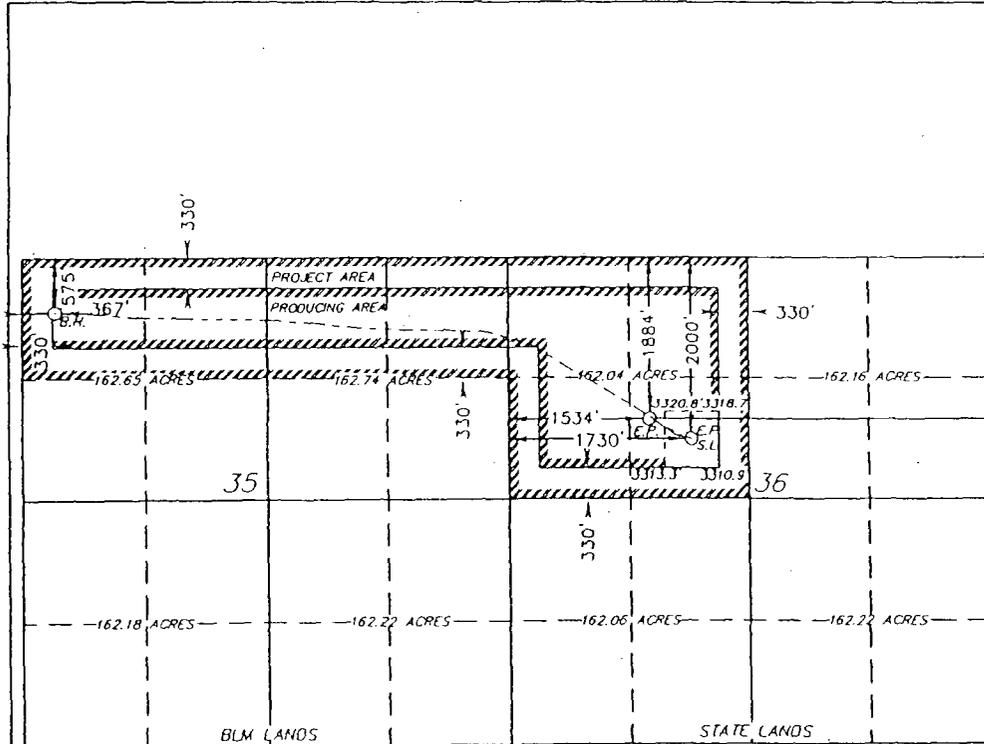
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	36	22 S	30 E		2000	NORTH	1730	WEST	EDDY

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 320	Joint or Infill	Consolidation Code	Order No.
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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.

*Valerie Truax* 01/13/10  
Signature Date

Valerie Truax  
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.

JUNE 17, 2009  
Date Surveyed

Signature & Seal of  
Professional Surveyor

W.O. No. 21200

Certificate No. Cory L. Jones 7977

BASIN SURVEYS

BOTTOM HOLE LOCATION PER BOPCO	BRUSHY CANYON ENTRY POINT	DELAWARE ENTRY POINT	SURFACE LOCATION
Lat - N 32°21'15.46"	Lat - N 32°21'02.35"	Lat - N 32°21'01.22"	Lat - N 32°21'01.22"
Long - W 103°51'32.88"	Long - W 103°50'16.68"	Long - W 103°50'14.39"	Long - W 103°50'14.39"
NMSPCE - N 492948.32	NMSPCE - N 491652.98	NMSPCE - N 491539.8	NMSPCE - N 491539.8
E 687766.71	E 694308.49	E 694505.4	E 694505.4
(NAD-83)	(NAD-83)	(NAD-83)	(NAD-83)

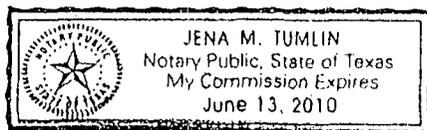
# gyro/data

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.



  
\_\_\_\_\_  
Jena Tumlin  
Operations

INTEQ

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

STATE OF NEW MEXICO

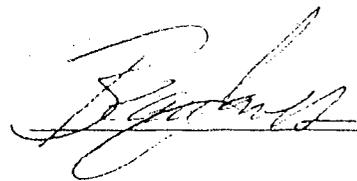
COUNTY OF

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.



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