

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

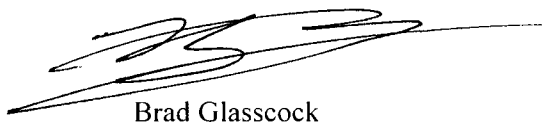
Re: Commercial Determination
James Ranch Unit Well No. 103 H
Delaware Formation
Eddy County, New Mexico

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 #103H
QUAHADA RIDGE SE (DELAWARE) FIELD
EDDY COUNTY, NEW MEXICO
FILE: 100-WF: JRU103HCD.DOC

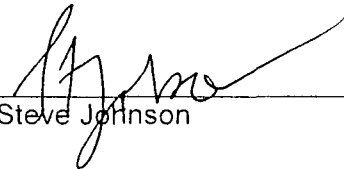
Attached are the worksheets and necessary exhibits for the subject well to be submitted for commercial determination. The James Ranch Unit #103H was drilled in 2009 to a measured depth of 10,610' and was completed in the Delaware. The well is producing from Delaware perforations 8,098-10,558'. On test 1/4/2010 the well pumped at the rate of 750 BOPD, 701 MCFPD, and 1255 BWPD. This well is expected to recover approximately 482.873 MBOE from the current completion.

The most recent price file from Fort Worth was utilized and the oil price was 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 #103H will be a commercial well and should be incorporated into a participating area.

RSD

RSD/cdp

cc: Ross Sutton
George Hillis
Brad Glasscock



Steve Johnson

WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL DATA

WELL James Ranch Unit #103H FORMATION DELAWARE
 LOCATION B UNIT, 760 FEET FROM NORTH LINE & 1500 FEET FROM EAST LINE
 SECTION 36 TOWNSHIP 22S RANGE 30E COUNTY Eddy NEW MEXICO
 SPUD DATE 10/7/2009 COMPLETION DATE 12/18/2009 INITIAL PRODUCTION 12/18/2009
 PERFORATIONS 8098-10558

* BHL UL D 542' FNL 334' FWL SEC 36, T22S R30E
 STIMULATION:

ACID _____

FRACTURE 8098-10558' - See Attached sheets

POTENTIAL (1/4/2010): 750 BOPD, 701 MCFPD, 1255 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>120</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>3,482</u>	
Recovery factor (RF), %	<u>17%</u>	
Recoverable Oil, Bbls *(See eq. below)	<u>531,459</u>	

*Sometimes unable to match performance due to volumetric uncertainty.

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

Bo = 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>33,519</u>	BBL OIL	<u>55,188</u>	MCF
INITIAL RATE (qi)		<u>916</u>			
ECONOMIC LIMIT (qi)		<u>5</u>			
HYPERBOLIC DECLINE RATE, dy		<u>n = .95, d = 98%/yr</u>			
REMAINING OIL (Q) =		<u>355,467</u>			
ULTIMATE RECOVERABLE OIL (BO)		<u>388,986</u>			

(Attach plot showing proration unit and participating area.)

ECONOMIC

GROSS WELL COST \$1,930,734 (to the depth of formation completed)COMPLETION COST \$1,576,876GROSS TOTAL COST \$3,507,610

YEAR	GROSS OIL MBBLS	BFIT NET INCOME (\$M)	OPERATING COST (\$M) INCL SEV & AD VAL TAX	5% NET BFIT DISCOUNTED CASH FLOW
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:

2:51:33PM

Project Name : Exp of Risked 2009 New wells databa

As Of Date : 01/01/2010

Lease Name : James Ranch Unit #103H

Partner : ALL CASES

Discount Rate (%) : 5.00

Reserv Cat. : Proved Producing

Case Type : LEASE CASE

Field : LOS MEDANOS

Archive Set : BUDGET2009

James Ranch Unit #103H

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
Sales

Year	Gross Wet Production		Gross Dry Gas & NGL		Oil (Mbbbl)	Gas (MMcf)	NGL (Mgal)
	Oil (Mbbbl)	Wet Gas (MMcf)	Dry Gas (MMcf)	NGL (Mgal)			
2010	140.244	205.261	133.296	876.463	122.713	116.634	766.905
2011	46.534	65.420	42.484	279.343	40.717	37.173	244.425
2012	28.432	40.085	26.031	171.165	24.878	22.778	149.769
2013	20.329	28.742	18.665	122.729	17.788	16.332	107.388
2014	15.812	22.418	14.558	95.726	13.835	12.739	83.761
2015	12.915	18.362	11.924	78.406	11.300	10.434	68.605
2016	10.928	15.581	10.119	66.532	9.562	8.854	58.216
2017	9.417	13.465	8.744	57.494	8.240	7.651	50.307
2018	8.286	11.880	7.715	50.726	7.250	6.750	44.385
2019	7.392	10.628	6.902	45.382	6.468	6.039	39.710

Rem	88.698	131.483	85.385	561.431	77.611	74.712	491.252
Total	388.986	563.325	365.823	2,405.397	340.363	320.095	2,104.723
Ult.	388.986	563.325					

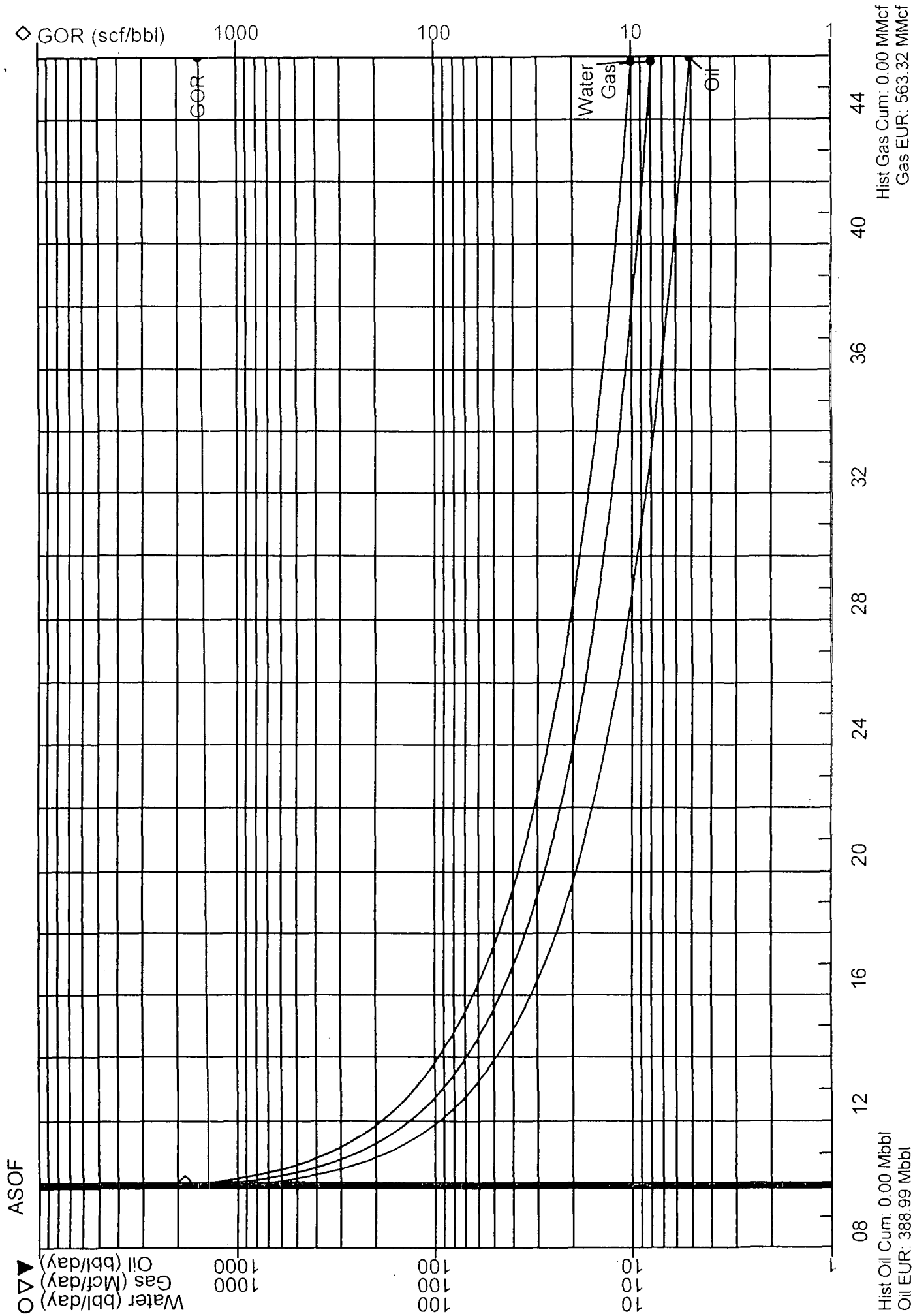
Year	Average Price			Net Revenue			
	Oil (\$/bbl)	Gas (\$/Mcf)	NGL (\$/gal)	Oil (M\$)	Gas (M\$)	NGL (M\$)	Total (M\$)
2010	78.74	5.03	0.83	9,662.09	586.41	636.53	10,885.03
2011	83.89	5.60	0.83	3,415.83	208.19	202.87	3,826.89
2012	84.58	6.04	0.83	2,104.10	137.58	124.31	2,365.99
2013	85.00	6.31	0.83	1,511.95	103.09	89.13	1,704.18
2014	85.44	6.60	0.83	1,182.15	84.05	69.52	1,335.72
2015	86.16	6.93	0.83	973.61	72.28	56.94	1,102.84
2016	86.83	7.26	0.83	830.34	64.32	48.32	942.98
2017	87.70	7.60	0.83	722.63	58.15	41.75	822.54
2018	88.68	7.96	0.83	642.92	53.71	36.84	733.47
2019	89.39	8.23	0.83	578.18	49.68	32.96	660.83
Rem	89.39	8.86	0.83	6,937.61	662.10	407.74	8,007.45
Total	83.91	6.50	0.83	28,561.40	2,079.57	1,746.92	32,387.89

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	788.06	21.77	3,507.61	615.13	5,952.46	5,952.46	5,765.42	5,765.42
2011	276.87	7.65	0.00	226.20	3,316.17	9,268.63	3,078.25	8,843.67
2012	171.32	4.73	0.00	160.64	2,029.30	11,297.93	1,790.27	10,633.94
2013	123.46	3.41	0.00	137.12	1,440.19	12,738.12	1,208.03	11,841.97
2014	96.82	2.67	0.00	124.00	1,112.23	13,850.35	887.23	12,729.20
2015	79.99	2.21	0.00	109.63	911.01	14,761.36	691.09	13,420.30
2016	68.43	1.89	0.00	88.40	784.25	15,545.61	565.91	13,986.21
2017	59.72	1.65	0.00	86.98	674.19	16,219.81	462.70	14,448.91
2018	53.29	1.47	0.00	85.91	592.81	16,812.61	386.99	14,835.91
2019	48.03	1.32	0.00	85.06	526.41	17,339.02	326.90	15,162.80
Rem	583.12	16.01	0.00	2,151.06	5,257.25	5,257.25	2,125.18	2,125.18
Total	2,349.11	64.78	3,507.61	3,870.13	22,596.27	22,596.27	17,287.98	17,287.98

Major Phase :	Oil	Working Int :	1.00000000	Present Worth Profile (M\$)	
Perfs :	0 0	Revenue Int :	0.87500000		
Initial Rate :	27.870.00 bbl/month	Disc. Initial Invest. (m\$) :	3,507.605	1.00% :	21,204.80
Abandonment :	152.08 bbl/month	Internal ROR (%) :	347.43	5.00% :	17,287.98
Initial Decline :	98.24 % year b = 0.950	ROI Investment (disc/undisc) :	5.93 / 7.44	10.00% :	14,395.19
Bee Ratio :	1.40 Mcf/bbl	Years to Pavout :	0.19	15.00% :	12,523.92
End Ratio :	1.55 Mcf/bbl	Abandonment Date :	06/24/2046	20.00% :	11,172.92
Forecast Start :	01/01/2010			25.00% :	10,127.54
		Initial	1st Rev.	30.00% :	9,280.88
		Working Interest : 1.00000000	0.00000000	40.00% :	7,967.29
		Revenue Interest : 0.87500000	0.00000000	50.00% :	6,973.61
		Rev. Date :		60.00% :	6,181.88

Oper: BOPCO
Field: LOS MEDANOS

Case Name: James Ranch Unit #103H



WF
Form C-105
July 17, 2008

Submit To Appropriate District Office Two Copies 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 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	1. WELL API NO. 30-015-37175 2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN 3. State Oil & Gas Lease No.
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG											
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name James Ranch Unit 6. Well Number: 103H					
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER											
8. Name of Operator BOPCO, L.P.						9. OGRID 260737					
10. Address of Operator P.O. Box 2760 Midland, TX 79702						11. Pool name or Wildcat Quahada Ridge, SE (Delaware)					
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County	
Surface:	B	36	22S	30E		760	N	1500	E	Eddy	
BH:	D	36	22S	30E		542	N	334	W	Eddy	
13. Date Spudded 10/07/2009		14. Date T.D. Reached 10/25/2009		15. Date Rig Released 10/28/2009		16. Date Completed (Ready to Produce) 12/18/2009		17. Elevations (DF and RKB, RT, GR, etc.) 3326' GL			
18. Total Measured Depth of Well 10,610'			19. Plug Back Measured Depth 10,610'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run GR:PPC/Borehole Elip/GR:C			
22. Producing Interval(s), of this completion - Top, Bottom, Name 8,098'-10,558' Delaware											

23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	708'	17-1/2"	705 sxs	0' Circ
9-5/8"	40#	3,855'	12-1/4"	1475 sxs	0' Circ
7"	26#	7,698'	8-3/4"	285 sxs	DV 4988'
				675 sxs	0' Circ

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"	8,807'	10,610'	NA	NA	N/A		

26. Perforation record (Interval, size, and number) 8,098'-102', 8,371'-75', 8,885'-89', 8,957'-61', 9,235'-39', 9,513'-8,517', 9,792'-96', 10,092'-96', 10,389'-93', 10,555'-558'		27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED see attachment for details	
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28. PRODUCTION							
Date First Production 12/18/2009		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-In) Producing	
Date of Test 01/04/2010	Hours Tested 24 hrs	Choke Size WO	Prod'n For Test Period	Oil - Bbl 750	Gas - MCF 701	Water - Bbl. 1255	Gas - Oil Ratio 934.87
Flow Tubing Press. 550	Casing Pressure 450	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Carr.)	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold						30. Test Witnessed By NA	
31. List Attachments NA							
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							
33. If an on-site burial was used at the well, report the exact location of the on-site burial:							

Latitude	Longitude	NAD 1927 1983
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I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature <i>Valerie Truax</i>	Printed Name Valerie Truax	Title Regulatory Admin Assistant	Date 01/05/2010
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E-mail Address vtruax@basspet.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt 742	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand 3844	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T. Rustler 307	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

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

Depth Interval	Amount & Kind Material Used
10,555'-10,558'	Acidize w/ 756 gals 15% HCl
10,555'-10,558'	Frac w/ 2478 gals 25# linear, 58,498 gals YF125ST w/ 151,299# 16/30 Ottawa sand
10,389'-10,393'	Acidize w/ 756 gals 15% HCl
10,555'-10,558'	Frac w/ 13,734 gals 25# linear, 58,129 gals YF125ST w/ 151,099# 16/30 Ottawa sand
10,092'-10,096'	Acidize w/ 756 gals 15% HCl
10,092'-10,096'	Frac w/ 14,868 gals 25# linear, 57,702 gals YF125ST w/ 147,538# 16/30 Ottawa sand
9,792'-9,796'	Acidize w/ 882 gals 15% HCl
9,792'-9,796'	Frac w/ 14,826 gals 25# linear, 58,223 gals YF125ST w/ 150,872# 16/30 Ottawa sand
9,513'-9,517'	Acidize w/ 840 gals 15% HCl
9,513'-9,517'	Frac w/ 13,146 gals 25# linear, 57,946 gals YF125ST w/ 150,510# 16/30 Ottawa sand
9,235'-9,239'	Acidize w/ 840 gals 15% HCl
9,235'-9,239'	Frac w/ 15,834 gals 25# linear, 57,538 gals YF125ST w/ 149,314# 16/30 Ottawa sand
8,957'-8,961'	Acidize w/ 840 gals 15% HCl
8,957'-8,961'	Frac w/ 12,012 gals 25# linear, 58,293 gals YF125ST w/ 152,118# 16/30 Ottawa sand
8,685'-8,689'	Acidize w/ 756 gals 15% HCl
8,685'-8,689'	Frac w/ 12,684 gals 25# linear, 57,863 gals YF125ST w/ 148,620# 16/30 Ottawa sand
8,371'-8,375'	Acidize w/ 546 gals 15% HCl
8,371'-8,375'	Frac w/ 12,390 gals 25# linear, 58,657 gals YF125ST w/ 155,200# 16/30 Ottawa sand
8,098'-8,102'	Acidize w/ 840 gals 15% HCl
8,098'-8,102'	Frac w/ 11,760 gals 25# linear, 58,361 gals YF125ST w/ 151,540# 16/30 Ottawa sand

DISTRICT I

1620 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37175	Pool Code 50443	Pool Name Quahada Ridge, SE (Delaware)
Property Code 306407	Property Name JAMES RANCH UNIT	Well Number 103H
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
B	36	22 S	30 E		760	NORTH	1500	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
D	36	22 S	30 E		542	NORTH	334	WEST	EDDY

Dedicated Acres 120	Joint or Infill N	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 undivided 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: <u>Gary E. Gerhard</u> Date: <u>6/4/09</u> Printed Name: <u>Gary E. Gerhard</u>
BOTTOM HOLE LOCATION LAT - N32°21'13.51" LONG - W103°50'30.68" SPC - N.: 492775.706 E.: 693102.882 (NAD-83)			DELAWARE ENTRY POINT LAT - N32°21'13.45" LONG - W103°49'49.70" SPC - N.: 492786.160 E.: 696618.203 (NAD-83)
SURFACE LOCATION LAT - N32°21'13.45" LONG - W103°49'49.70" SPC - N.: 492786.160 E.: 696618.203 (NAD-83)			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. Date Surveyed: <u>MAY 15, 2009</u> Signature: <u>[Signature]</u> Professional Surveyor Certificate No. <u>Gary L. Jones 7977</u> BASIN SURVEYS

Schlumberger

Reservoir Development
Drilling & Measurements (Anadrill)
4301 SW 44th St
Oklahoma City, Oklahoma 73119 USA
Phone: (405) 682-2284
Fax: (405) 682-3937

December 3, 2009

BOPCO LP
P O Box 2760

Midland, Texas 79702

Re:

Sec 36 T22S R30E NMPM
N 32.353736 W 103.830472

CLIENT: BOPCO LP
WELL: James Ranch Unit # 103H
FIELD: Quahada Ridge SE (Delaware)
RIG: MACVAY 5
COUNTY: Eddy New Mexico
API NO: 30-015-37175
JOB NO: 09SWB0714 40019660

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements , a division of Schlumberger Technology Corporation .

Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
George Blevins MWD	James Ranch Unit # 103H Original Hole	6851.00 Ft to 10552.00 Ft	October 10, 2009 to October 25, 2009	SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Ziad Akkaoui
Field Service Manager

JAE

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

Well Reference:

Sec 36 T22S R30E NMPM

N 32.353736 W 103.830472

I, George Blevins certify that; I am employed by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation; that I did on the day(s) of October 10, 2009 through October 25, 2009, conduct or supervise the taking of the SlimPulse surveys from a depth of 6851.00 feet to a depth of 10552.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of BOPCO LP for the James Ranch Unit # 103H Well (Original Hole) API No. 30-015-37175 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By

George Blevins(signature)

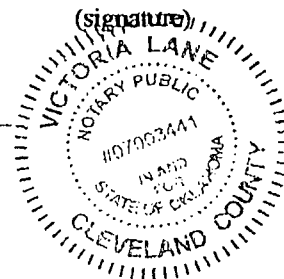
MWD

Subscribed and Sworn to before me this 3rd day of December (month) 2009 (yr)

My Commission expires:

4-9-2011

Notary Public

Cleveland, Oklahoma
(County State)

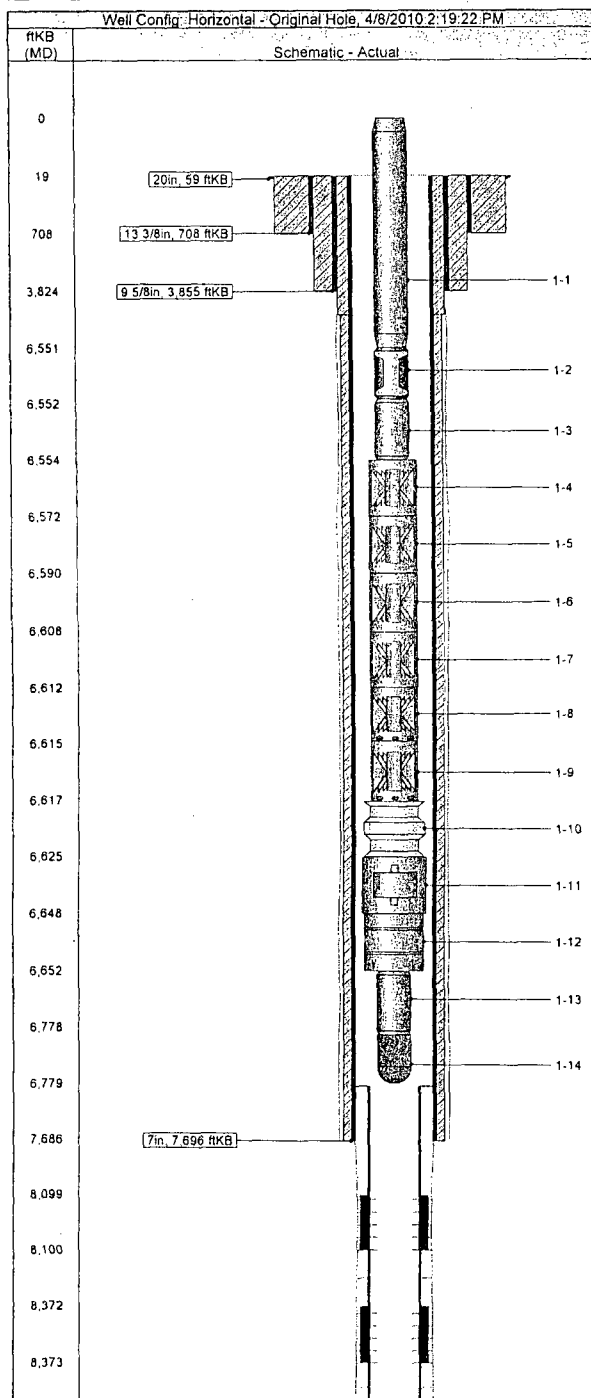
Well ID: 30-015-37175

Well Name: JAMES RANCH UNIT #103H

Field: Quahada Ridge SE - Delaware

Sect: 36 Town: 22S Rng: 30E County: Eddy State: New Mexico

Surface Location: 760' FNL, 1500' FEL



Well Information						
Original KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Spud Date	On Production Date		
3,344.27	3,326.00	18.27	10/7/2009	12/18/2009		
Wellbores						
Wellbore Name: Original Hole			Kick Off Depth (ftKB):			
Size (in)		Act Top (ftKB)		Act Btm (ftKB)		
17 1/2		19.0				708.0
12 1/4		708.0				3,824.0
8 3/4		3,824.0				7,686.0
6 1/8		7,686.0				10,610.0
Casing Strings						
Casing Description	Wellbore	OD (in)	Wt (lbs/ft)	Grade	Top Thread	Set @ (ftKB)
Conductor	Original Hole	20	52.70	Grade "B"		59.0
Surface	Original Hole	13 3/8	48.00	J-55	STC	708.0
Intermediate	Original Hole	9 5/8	40.00	J-55	LT&C	3,855.0
Intermediate 2	Original Hole	7	26.00	HCP-110	LT&C	7,696.0
Liner	Original Hole	4 1/2	11.60	HCP110	Ultra FJ	10,610.0
Perforations						
Perf Date	Top (ftKB)	Btm (ftKB)	Zone	Current Status		
12/9/2009	8,099.5	8,100.5	Middle Brushy Cnyn U, Original Hole	Open - Active		
12/9/2009	8,372.5	8,373.5	Middle Brushy Cnyn U, Original Hole	Open - Active		
12/9/2009	8,686.5	8,687.5	Middle Brushy Cnyn U, Original Hole	Open - Active		
12/9/2009	8,958.5	8,959.5	Middle Brushy Cnyn U, Original Hole	Open - Active		
12/9/2009	9,236.0	9,237.0	Middle Brushy Cnyn U, Original Hole	Open - Active		
12/9/2009	9,514.0	9,515.0	Middle Brushy Cnyn U, Original Hole	Open - Active		
12/9/2009	9,793.0	9,794.0	Middle Brushy Cnyn U, Original Hole	Open - Active		
12/9/2009	10,093.0	10,094.0	Middle Brushy Cnyn U, Original Hole	Open - Active		
12/9/2009	10,390.0	10,391.0	Middle Brushy Cnyn U, Original Hole	Open - Active		
12/9/2009	10,556.0	10,557.0	Middle Brushy Cnyn U, Original Hole	Open - Active		
Tubing Strings						
Tubing Description		Run Date	String Length (ft)	Set Depth (ftKB)		
Tubing - Production		12/15/2009	6,779.05	6,779.0		
No.	Item Description	Jts	OD (in)	Wt (lbs/ft)	Grade	Top (ftKB)
1-1	2-7/8" 6.5 ppf L-80 8RD Tubing	204	2 7/8	6.50	L-80	-0.05
1-2	2-7/8" Standard Sealing Nipple	1	2 7/8			6,550.76
1-3	2-7/8" x 2' N - 80 Tbg Sub	1	2 7/8		N-80	6,551.76
1-4	Borets SD 1750 (99 stg) pump	1	4			6,553.86
1-5	Borets SD 1750 (99 stg) pump	1	4			6,572.08
1-6	Borets SD 1750 (99 stg) pump	1	4			6,589.90
1-7	Borets SD 6000 (16 stg) pump	1	4			6,607.72
1-8	Borets RGS	1	4			6,611.83
1-9	Borets RGS	1	4			6,614.38
1-10	Seal Assembly	1	5.13			6,616.93
1-11	Borets 150 hp motor w/ DHS	1	5.4			6,625.38
1-12	Desander	1	5			6,648.28
1-13	2-7/8" 6.5 ppf L-80 8RD Tubing	4	2 7/8	6.50	L-80	6,651.58
1-14	Bluff Plug	1	2 7/8			6,778.30
Cement						
Surface Casing Cement, 10/9/2009						
String: Surface, 708.0ftKB						
Cement Evaluation Results: Circulated 347 sx (108 bbbs) to surface.						
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Cmnt Rtn (bbl)	Top Measurement Method		
1	19.0	708.0	108.0	Circulated		
Fluid		Amount (sacks)	Class	Density (lb/gal)	Yield (ft ³ /sack)	
Lead		380	C	13.50	1.75	
Tail		325	C	14.80	1.35	
Intermediate Casing Cement, 10/13/2009						
String: Intermediate, 3,855.0ftKB						
Cement Evaluation Results: Circulated 579 sx (197 bbbs) cement to surface						
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Cmnt Rtn (bbl)	Top Measurement Method		
1	19.0	3,855.0	197.0	Circulated		
Fluid		Amount (sacks)	Class	Density (lb/gal)	Yield (ft ³ /sack)	
Lead		1,225	C	12.90	1.88	
Tail		250	C	14.80	1.33	
2nd Intermediate Casing Cement, 10/19/2009						
String: Intermediate 2, 7,696.0ftKB						
Cement Evaluation Results: Circulated 45 sks (15 bbbs) to surface.						
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Cmnt Rtn (bbl)	Top Measurement Method		