				State of Ne	ew Mexico			
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P.O. Box 1980, Eobbe, NM 88241-1 DISTRICT II P.O. Drawer DD, Artemia, NM 86211		OIL	CON	SERVAT	ION DIVIS	SION Subm		- ·
DISTRICT III 1000 Rio Brazos Rd., Axtec, N	in 87410		Santa H	Fe, New Mexi	co 87504-2088			
DISTRICT IV p.0. box 2088, santa FE, n.m. 87	7504-2088	WELL LO	CATION	I AND ACRE	AGE DEDICAT	ION PLAT	- AMENDI	ED REPORT
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I LUINICIU Form C-102 anergy, minerals and Natural Resources Department P.C. Box 1980, Hobbs, NM 88241-1980 Revised February 10, 1994 Submit to Appropriate District Office OIL CONSERVATION DIVISION DISTRICT II State Lease - 4 Copies P.O. Drawer DD, Artesia, NM 88211-0719 Fee Lease - 3 Copies P.O. Box 2088 Santa Fe, New Mexico 87504-2088 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT □ AMENDED REPORT P.O. BOX 2088, SANTA FE, N.M. 87504-2088 API Number Pool Code Pool Name Bloriety - Jeso 51120 **Property** Code Property Name Well Number SPARKPLUG RIDGE FEDERAL 17 NM 29276 1 OGRID No. **Operator** Name Elevation BP dba ARCO PERMIAN 000990 3440' Surface Location East/West line UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the County 27-E 2310 · NORTH 1650 EAST 17 18-S EDDY G Bottom Hole Location If Different From Surface UL or lot No. Lot Idn Feet from the North/South line Feet from the East/West line County Section Township Range Dedicated Acres Joint or Infill Consolidation Code Order No. 40 N 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 the the information contained herein is true and complete to the best of my knowledge and belief. BP EAU "R" #3 BP EAU "R" #4 Date SPARKPLUG RIDGE FED 1322' 1494 SURVEYOR CERTIFICATION EAU S BP I hereby certify that the well location shown on this plat was plotted from field notes of BP EAU 'S' #2 ual surveys made by me or under my BP EAU 'S' #4 ervison, and that the same is true and rect to the best of my belief. JANUARY 16, 2002 Date Surveyed AWB Signature & Seal of Professional Surveyor 01.11.1271 Certificate No. RONALD J. EIDSON GARY EIDSON 3239 12641

State of Mariae

4. 1. 1

SURFACE USE PLAN

Attachment to BLM Form 3160-3 ARCO Permian Well: Sparkplug Ridge 17 Federal, Well No. 1 2310' FNL & 1650' FEL UNIT G Section 17, T18S-R27E Eddy County, New Mexico

1. Directions to location Existing Roads

From Artesia, New Mexico go East 5.4 miles on Highway 82 to Eddy County Rd. 201. Go South on CR 201 6.7 miles and turn left to location. Exhibits "4" and "5" are the Vicinity Map and the Location Verification Map.

- A. The proposed development well site is staked as shown on the certified location plat attached.
- B. Most of the existing roads will not require improvement. Any existing sections of road that needs improvement or repair will be fixed to a condition equal to that of the good sections of the existing road. All roads will be maintained in a condition equal to that which existed prior to the start of the construction.

2. Planned Access Roads

- A. Approximately 330' of new access road will be required.
- B. New access roads will have a 12' wide travel lane and be surfaced with 6" compacted caliche.
- C. Turnouts: None
- D. Culverts: None
- E. Cuts and fills: No major road cuts or fill will be necessary.

3. Location of Existing Wells

A. The existing wells within a one-mile radius of this location are shown on Exhibit "6".

4. Location of Existing or Proposed Facilities

- A. Existing Facilities No facilities currently exist for this well.
- B. New Facilities Proposed If a successful Delaware producer is completed, surface facilities will consist of a treater and collection tanks for oil and water. The location site will be 200' x 200' located **Or** lease at 1720' FNL & 500' FEL. Flowlines will follow the route outlines in Exhibit "8"

5. Location and Type of Water Supply

Fresh and brine water used in drilling and completion operations will be purchased from independent trucking companies located in Loving or Carlsbad, New Mexico. The water will be hauled over existing and new roads to the location.

6. Source of Construction Materials

Caliche for the road and well pad construction will be from the designated caliche pit.

7. Methods of Handling Waste Disposal

- A. Drill cuttings will handled in the reserve pit and buried during reclamation operations.
- B. Trash, waste paper, garbage and junk will be contained in a fenced trash trailer to prevent scattering by the wind and hauled to a municipal sanitary landfill. The supplier will pick up all sacked drilling mud. The drilling contractor will haul away any chemicals that they used while drilling.
- C. Toilet facilities will be provided for human waste. Sewage disposal facilities will be in accordance with State and Local Regulations.
- D. Drilling fluids will be handled as follows: The free water will be either hauled to the reserve pit of the next drilling well for re-use or hauled to a permitted SWD. If any mud is hauled away it will be disposed of an approved mud disposal site. Remaining drilling fluids will be allowed to evaporate in the reserve pit until dry enough for reclamation.
- E. Any fluids produced during swab testing the well while the pulling unit is on location will be collected in a test tank. Produced water will be hauled to a permitted SWD. Oil produced will remain in the test tank until sold and hauled from the site.

8. Auxiliary Facilities

No new facilities will be built during drilling of this well. A trailer will be used as an office and temporary living quarters for well site supervision.

9. Well site Layout

- A. Exhibit "7" shows the proposed well site layout and dimensions. Major rig components and reserve pits are shown.
- B. No significant cuts or fills will be required.
- C. The reserve pits will be plastic lined with minimum 6 mil double x laminated plastic. The liner will overlap the pit dikes and be anchored down. The reserve pit will be fenced on three sides during drilling operations. After drilling operations have ceased the fourth side of the pit will be fenced.

10. **Plans for Reclamation of the Surface**

A. In a timely manner, after finishing the drilling and/or completion operations all equipment and other material not needed for production operations will be removed. The location will be cleared of all trash and debris then any ruts, etc. will be filled. The cellar will be filled around the wellhead. B. Any pits containing fluids will be fenced until they are filled. The NMOCD pit netting rules will be followed. The reserve pits will be reclaimed by deep burying the drill cuttings. The pit area will be leveled and contoured to conform to the surrounding area. A stockpile of topsoil from the location construction will be evenly distributed over the disturbed area. Re-vegetation procedures will comply with BLM standards.

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C. Upon abandonment of the well, surface restoration will be in accordance with the surface owner requirements and will be accomplished as expediently as possible.

11. Surface Ownership

The surface for the well site locations is on BLM surface and minerals and administered by the BLM.

12. Additional Information

- A. Topography: Gently rolling grassland with caprock mesa formations.
- B. Vegetation includes Honey mesquite, creosote, broom snakeweed, various cacti, sand sage, various yucca, and mixed grasses.
- C. Soils are of the Reeves-Gypsum land-Cottonwood association as defined by the Soil Conservation Service of the U.S. Department of Agriculture.
- D. Primary use of the land is livestock grazing and accessing producing wells.
- E. There are no dwellings in the vicinity.
- F. An archaeological block survey was performed by Mesa Field Services report # MFS-537
- G. The selected dirt contractor will be furnished with an approved copy of the Surface Use Plan and any additional stipulations prior to beginning any work.

13. **Operator's Representatives**

Jeff Robinson, Engineer ARCO Permian 200 Westlake Park Blvd, Rm 245 Houston, TX 77079 (281) 366-3706

Certification

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

olmin Sbińson

2/12/07

Engineer



EXHIBIT 2

DRILLING OPERATIONS CHOKE MANIFOLD 2M AND 3M SERVICE



EXHIBIT #3

BLOWOUT PREVENTION EQUIPMENT SPECIFICATIONS

- 1. All BOP equipment shall be fluid and/or mechanically operated.
- 2. BOP's and all fittings will be in good working condition.
- 3. Equipment through which the bit must pass shall be at least as large as the casing size being drilled.
- 4. The nipple above the BOP shall be at least the same size as the last casing set.
- 5. The upper kelly cock with handle and lower kelly cock shall be rated at the BOP working pressure.
- 6. A floor safety valve (full opening) or drill string BOP with appropriate pressure ratings shall be available on the rig floor with connections or subs to fit any tool joint in the string.
- 7. The minimum size choke line shall be 3 inches nominal diameter, with a minimum size for vent lines downstream of chokes of 2 inches nominal, and vent lines which by-pass shall be a minimum of 3 inches nominal and as straight as possible.
- 8. All valves, fittings and lines between the closing unit and the blowout preventer stack should be of steel construction with rated working pressure at least equal to working pressure rating of the stack. Lines shall be bundled and protected from damage.

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- 9. Minimum size for kill line is 2 inches nominal.
- 10. Ram type preventers shall be equipped with extension hand wheels or hydraulic locks.

EXHIBIT #4

VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>17</u> TWP. <u>18–S</u> RGE. <u>27–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>2310' FNL & 1650' FEL</u> ELEVATION <u>3440</u> OPERATOR <u>BP dba ARCO PERMIAN</u> LEASE <u>SPARKPLUG RIDGE 17 FEDERAL</u>

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JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117 EXHIBIT #5

LUCATION VERIFICATION MAP



SCALE: 1'' = 2000'

SEC. <u>17</u> TWP.<u>18-S</u> RGE. <u>27-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>2310' FNL & 1650' FEL</u> ELEVATION <u>3440'</u> OPERATOR <u>BP dba ARCO PERMIAN</u> LEASE <u>SPARKPLUG RIDGE 17 FEDERAL</u> U.S.G.S. TOPOGRAPHIC MAP <u>SPRING LAKE, LAKE McMILLAN NORTH, N.M.</u> CONTOUR INTERVAL: 10' SPRING LAKE, N.M. LAKE MCMILLAN NORTH, N.M.

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

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FROM : CRPSTAR DRILLING

EXHIBIT #8: FLOWLINE ROUTING



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*See Instructions On Reverse Side Title 18 U.S.C. Section 1001, makes 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.

APPROVAL FOR 1 YEAR

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(June 1990) DEPARTMEN BUREAU OF SUNDRY NOTICES AN Do not use this form for proposals to drill	OCD-ARTESIA TED STATES NT OF THE INTERIOR LAND MANAGEMENT D REPORTS ON WELLS or to deepen or reentry to a different reservoir.	<u>NM • 0</u> 6. If	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 ease Designation and Serial No. 4175B Indian, Allottee or Tribe Name
		7. If	Unit or CA, Agreement Designation
Type of Well X Oil Gas Well Other Name of Operator BP America Production Company Address and Telephone No. P.O. Box 1089, Eunice, NM 88231 Location of Well (Footage, Sec., T., R., M., or Survey Desce Unit Letter B, 660' FNL & 1980' FEL		Glow Fede 9. A <u>30-(</u> 10. I Redl	Vell Name and No. Vell Name and No. Veral PI Well No. 015- Field and Pool, or exploratory Area lake Glorietta Yeso County or Parish, State
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TYPE OF SUBMISSION X Notice of Intent Subsequent Report Final Abandonment Notice 13. Describe Proposed or Completed Operations (Clearly state give subsurfacelocationsand measured and true ver As per previous discussion with Bar	s) TO INDICATE NATURE OF NOTICE, REPO TYPE OF ACTION Abandonment Abandonment Plugging Back Casing Repair Altering Casing Other all pertinent details, and give pertinent dates, including estimated date tical depths for all markers and zones pertinent to this work.)* Try Hunt, BP America Production Company requ	I X C c of startin yests	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water lote: Report results of multiple completion on Well completion or Recompletion Report and Log form.)
as indicated on the attached TOPO N The new battery location will be co	onstructed in Unit Letter H. 2310' FNL & 105 y. NM. A block survey of the acreage has be	50' FEI	RECULTA MC2 APR 15 APA 0

14. I hereby certify that the foregoing is impand correct Title Operations Supervisor	Date/ 04-12.02
(This space for Federal or State office use) Approved by/S/ JOE G. LARA Conditions of approval, if any:	DateAPR _1 & 2002

Title 18 U.S.C. Section 1001, makes 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 statem or representations as to any matter within its jurisdiction.



(November 1994) DEPART	or proposals to drill or to	EMENT 1301 V ON WELLS Arte	Oil Con J DIV-D V. Granc sia, NM	ist. 2 ^{Budget Bureau No. 1004-0135} Expires November 30 2000
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501 WESTLAKE PARK BLVD, RM 5.172, H	OUSTON. 77079	281-366-7655	ae)	10. Field and Pool or Furtherstory Arrow
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14. I hereby certify that the foregoing is true and correct Name (Printed Typed) Any T. Spang		Title REG. AND Date 3/13/02	ALYST	
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	SFACE FOR FEL			Data
Approved by		Title		Date
Conditions of approval, if any, are attached. Approval of certify that the applicant holds legal or equitable title to				······································

certify	that	the	applicant	holds	legal	or	equitable	title	to	those	rights	in	the	sub
which y	would	d enti	tle the app	licant to	o condi	uct d	operations i	therec	m.					

Title 18 U.S.C. Section 1001, makes 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.

DRILLING PLAN

Attachment to BLM Form 3160-3 ARCO Permian Well: Sparkplug Ridge Federal 17, No. 1 2310' FNL & 1650' FEL UNIT G Section 17, T18S-R27E Eddy County, New Mexico

1. Surface Geological Formation

Yates Formation (Sand and Anhydrite)

2. Estimated Tops of Geological Markers

Formation	TVD
Salt Base Salt/Anhydrite Bell Canyon Cherry Canyon Brushy Canyon	700' 2825' 2845' 3725' 5000'
Diusity Galiyon	0000

3. Estimated Tops of Possible Water, Oil, Gas or Mineral:

Sands above 500'	Water
Cherry Canyon & Brushy Canyon	Oil or Gas

4. **Pressure Control Equipment**

Interval, TVD	Pressure Control Equipment
0' – 580'	No pressure control required
580' – TD	11", 2M psi double ram preventer, or 11" 2M psi annular preventer

Exhibits 1, 2 and 3 show the BOP stack arrangement, the choke manifold arrangements and the BOP specifications, respectively. The BOPE will be hydraulically tested per BLM requirements outlined by Onshore Oil and Gas Order No. 2. Pipe rams and blind rams, if a double ram preventer is used, will be functioned on each trip out of the hole. All BOPE checks and tests will be witnessed by ARCO's representative and will be noted on the IADC daily drilling report. Accessories to BOPE will include an upper kelly cock, lower kelly cock, and floor safety valve; all with pressure rating equivalent to the BOP stack.

5. **Proposed Casing and Cementing Program**

	Hole	Interval	Casing	Weight &
	<u>Size</u>	<u>M.D.</u>	<u>Size</u>	<u>Grade</u>
Surface	11"	0'-580'	8-5/8"	24.0# J-55
Production	7-7/8"	580'-5500'	5-1/2"	15.5# J-55

Cement Program: (Actual volumes will be based on caliper log when available)

Surface – Cement to surface with total of +/- 600 cu ft as follows:

Lead – 120 sxs 35/65 POZ:C + 6% Bentonite

Tail - 195 sxs "C" + 2% CaCl

Production - Cement to surface with total of +/- 800 cu ft as follows:

Lead - 330 sx 35/65 POZ:C + 6% gel

Tail – 470 sx 50/50 POZ:C + 32% gel + 3% salt + .4% FL-52

6. Mud Program

<u>Depth</u>	Mud Type	Weight ppg	Funnel <u>Viscosity</u>	Water <u>Loss</u>
0'-580' 580-2900'	Spud Mud FW Mud	8.4-8.9 9.0	29-34 28-30	NC NC
2900-3800'	FW Mud	9.0	30-35	≤ 15 cc

7. Auxiliary Equipment

Upper Kelly Cock, Lower Kelly Cock, and Full Opening Stabbing Valve

8. **Testing, Coring and Logging Program**

- A. Drill Stem Tests None planned
- B. Coring None planned
- C. Logging Mud logging planned from 2500' to TD
- D. Electric Logs Open Hole: GR, DLL/MLL, CNL/LDT TD to 2800' Cased Hole: GR/CCL TD to 2800'

9. Anticipated Abnormal Temperature, Pressure, or Hazards

10. Anticipated Starting Date and Duration of Operations

Pending favorable weather and permit approval, construction work on this location is planned to begin in February, 2002. Construction work will require 2 days, move-in and rig up rotary tools, 1 day, drill and complete, 18 days. It is planned to spud the well in March, 2002.