

**BTA OIL PRODUCERS, LLC**

104 SOUTH PECOS STREET  
MIDLAND, TEXAS 79701-5021  
432-682-3753  
FAX 432-683-0311

CARLTON BEAL, JR.  
BARRY BEAL  
SPENCER BEAL  
KELLY BEAL  
BARRY BEAL, JR.  
STUART BEAL  
ROBERT DAVENPORT, JR.

**GULF COAST DISTRICT**  
TOTAL PLAZA  
1201 LOUISIANA STREET, STE. 570  
HOUSTON, TEXAS 77002  
713-658-0077 FAX 713-655-0346

**ROCKY MOUNTAIN DISTRICT**  
600 17TH STREET, STE. 2230 SOUTH  
DENVER, COLORADO 80202  
303-534-4404 FAX 303-534-4661

June 9, 2015

015-43223

Re: CONFIDENTIAL STATUS  
20702 Harroun Ranch Fed Com #5H  
Section 20, T23S-R29E  
Eddy County, NM

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
DISTRICT 2  
811 S. First St.  
Artesia, NM 88210

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUN 18 2015

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Gentlemen:

Please be advised we hereby request CONFIDENTIAL STATUS for all eligible forms submitted with the above referenced well for the maximum length of time possible.

Respectfully,

Kayla McConnell  
For BTA Oil Producers, LLC

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM 37294
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name ---
2. Name of Operator BTA Oil Producers, LLC		7. If Unit or CA Agreement, Name and No. ---
3a. Address 104 S. Pecos Midland, TX 79701		8. Lease Name and Well No. Harroun Ranch Fed Com. 20702 511
3b. Phone No. (include area code) (432) 682-3753		9. API Well No. 30-015-43223
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 310' FSL & 765' FEL Sec. 20 UL -P- At proposed prod. zone 210' FNL & 430' FNL Sec. 20 UL -A-		10. Field and Pool, or Exploratory Laguna Salado; Bone Spring
14. Distance in miles and direction from nearest town or post office* 5 miles East from Loving, NM		11. Sec., T. R. M. or Bk. and Survey or Area Sec. 20, T23S-R29E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 210'	16. No. of acres in lease 640	17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft BHL: 1056'	19. Proposed Depth 13421' MD* 8500' TVD	20. BLM/BIA Bond No. on file NM1195 NMB000849
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3019' GL*	22. Approximate date work will start* 10/01/2015	23. Estimated duration 45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature <i>Kayla McConnell</i>	Name (Printed Typed) Kayla McCoanell	Date 04/10/2015
Title Regulatory Analyst Email: (kmcconnell@btaoil.com)		
Approved by (Signature)	Name (Printed Typed)	Date
Title	Office	

Application approval 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.  
Conditions of approval, if any, are attached.

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)

*PD*  
*7/16/2015*

NM OIL CONSERVATION  
ARTESIA DISTRICT

JUN 18 2015

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## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

**COPY** (Form WO-60-3, page 2)

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
DISTRICT III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30- <b>015-43223</b>	Pool Code 96721	Pool Name LAGUNA SALADO; BONE SPRING
Property Code 37294	Property Name 20702 HARROUN RANCH FEDERAL COM	Well Number 5H
OGRIID No. 260297	Operator Name BTA OIL PRODUCERS, LLC	Elevation 3019'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	23-S	29-E		310	SOUTH	765	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	20	23-S	29-E		210	NORTH	430	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

<p>NAD 27 NME BOTTOM HOLE LOCATION Y= 471978.5 N X= 603212.7 E  LAT.=32.297144' N LONG.=103.999303' W</p>		<p>NAD 83 NME BOTTOM HOLE LOCATION Y= 472038.1 N X= 644395.8 E  LAT.=32.297266' N LONG.=103.999795' W</p>		<p>A</p>	
<p>CORNER COORDINATES TABLE NAD 27 NME A - Y= 472185.4 N, X= 602319.5 E B - Y= 472190.0 N, X= 603643.0 E C - Y= 466873.6 N, X= 603633.4 E D - Y= 466863.5 N, X= 602303.2 E</p>		<p>CORNER COORDINATES TABLE NAD 83 NME A - Y= 472245.0 N, X= 643502.6 E B - Y= 472249.5 N, X= 644826.1 E C - Y= 466933.0 N, X= 644816.7 E D - Y= 466922.9 N, X= 643486.5 E</p>		<p>GRID AZ = 04°05'33" HORIZ. DIST. = 4814.2'</p>	
<p>GEODETIC COORDINATES NAD 27 NME  SURFACE LOCATION Y= 467177.7 N X= 602869.1 E  LAT.=32.283950' N LONG.=104.000463' W</p>		<p>GEODETIC COORDINATES NAD 83 NME  SURFACE LOCATION Y= 467237.2 N X= 644052.3 E  LAT.=32.284072' N LONG.=104.000954' W</p>		<p>D</p>	

B

210'

430'

765'

C

**OPERATOR CERTIFICATION**

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kayla McConnell 06/2/15  
Signature Date

Kayla McConnell  
Printed Name

kmccconnell@btaoil.com  
E-mail Address

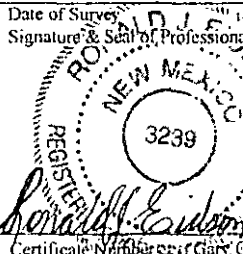
**SURVEYOR CERTIFICATION**

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.

NOVEMBER 6, 2014

Date of Survey

Ronald J. Eidson  
Signature & Seal of Professional Surveyor.



Ronald J. Eidson 06/05/2015  
Certificate Number

Gary C. Eidson 12641  
Ronald J. Eidson 3239

I.S.L. JWSC W.O.: 14.11.1216

# MULTI-POINT SURFACE USE & OPERATIONS PLAN

## BTA OIL PRODUCERS, LLC

#5H, Harroun Ranch Federal Com, 20702

310' FSL & 765' FEL

Sec. 20, T23S, R29E

Eddy County, New Mexico

Attachment to APD  
BTA Oil Producers, LLC  
20702 Harroun Ranch Fed Com #5H  
Sec 20, T23S, R29E  
Eddy County, NM

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the referenced well. The plan describes the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance, and the procedures to be followed in rehabilitating the surface after completion of the operation so that complete appraisal can be made concerning the environmental effects associated with the operations.

### 1. Existing Roads

- A. The well was staked by John West Surveying Company.
- B. Exhibit -B- is a topographic map showing the location of the proposed well as staked with existing roads and conditions within the one mile area. The proposed location is approximately 5.5 miles east from Loving, New Mexico as shown on Exhibit -C-.
- C. From Loving NM go northwest on U.S. Hwy 285 approximately 2.3 miles, turn right on State Hwy 31 and go east 3.0 miles, then northeast 2 miles to Co. Road 741, turn right on Co. Road 741 and go approximately 1.1 miles to end of route, turn left and go southeast approximately 2.1 miles to a stakes road, follow road south approximately 0.1 mile; turn left and go southeast approximately .5 miles to the proposed 20702 Harroun Ranch Fed Com #3H well pad. From the southeast corner of the well pad, follow road survey stakes east approximately 222 feet, then southeast approximately 361 feet; then east approximately 167 feet to the southwest corner of the 20702 Harroun Ranch Fed Com #4H well pad. Go east across the well pad approximately 400 feet to the proposed road survey stake at the southeast corner of this well pad. Follow road survey stakes east approximately 706 feet to the well location as shown on Exhibits -B- and -D-.

### 2. Access Roads

- A. Our proposed new access road will be 706' northeast from the well pad to the existing lease road as shown on Exhibit -B-, -D- and -E-.
- B. The maximum width of the road will be 15'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion. The road will be maintained during drilling operations and, if productive, as long as producing.
- C. Native caliche will be used for the access road and drill pad, compacted and watered. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be 1°.
- D. No cattle guards, grates, or fence cuts will be required. No turnouts are planned.

**COPY**

- E. We are, with this application, applying for the new access ROW from Eddy Co Rd 741 extending to this location for BLM surface.

3. Location of Existing Wells

- A. All existing wells within 1 mile radius of our proposed well (SL and BHL) are shown on Exhibit -F-.

4. Location of Existing and/ or Proposed Facilities if Well is Productive.

- A. If well is productive, we will use the existing well pad for the tank battery and all necessary production facilities.
- B. If necessary, the well will be operated by means of an electric prime mover. Electric power poles and lines will be set along side of the access road to tie in with an existing Xcel Energy line. We are, with this application applying for new electric ROW from Eddy Co Rd 741 extending to this location for BLM surface as depicted on Exhibit -G-, -H-, and -I-.
- C. A surface flow line of approximately 4564' (4119' BLM surface, 445' Fee surface) of 2-7/8" steel pipe carrying gas under a maximum pressure of 125 psi will follow the access road to an existing gas flowline that transects Section 20. The flowline will be placed a safe distance, estimated 5-10', from the road.
- D. The tank battery and facilities, including all flow lines will adhere to API standards.
- E. Additional facilities, if necessary for operations, will be applied for via Sundry notice with a schematic diagram prior to installation.
- F. Should the well be successfully completed for production, the original topsoil from the site will be returned to the location. The drill site will be contoured as close as possible to the original state.
- G. All facilities will be painted a flat, nonreflective, earthtone color to match the standard environmental colors within six months of installation.

5. Location and Type of Water Supply

- A. Water for drilling and completion operations will either be purchased from commercial water stations in the area and trucked to the well site using the existing and proposed roads or transported from a pre-existing water well by plastic temporary "fas-line" laid on the surface alongside existing roads.

6. Source of Construction Materials

- A. Caliche used for construction of the drilling pad and access road will be obtained from the closest existing caliche pit as designated by the BLM or from prevailing deposits found under the location.
- B. If there is not sufficient material available, it will be purchased from the area designated by the BLM.

7. Methods of Handling Waste Disposal

## MULTI-POINT SURFACE USE AND OPERATION PLAN

#5H, Harroun Ranch Federal Com, 20702

- A. This will be a closed loop system.
- B. Water produced during operations will be collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the BLM for appropriate approval.
- C. Oil and condensate produced during testing will be stored in test tanks until sold.
- D. Grey water and sewage will be contained safely and disposed of properly at a state-approved facility.
- E. The supplier will pick up salts remaining after completion of well, including broken sacks.
- F. Trash, waste paper and garbage will be disposed of by hauling to an approved and available disposal. All waste material will be contained in a totally enclosed trash basket with a fine wire mesh, to prevent wind scattering during collection. The road and pad will be kept litter free.

### 8. Ancillary Facilities

- A. It is possible that a mobile home will be used at the well site during drilling operations.
- B. A Frac Pond will be constructed in the SW/SW of Section 20, as depicted on the Exhibit - J-.

### 9. Wellsite Layout

- A. Exhibit -K- shows the proposed pad layout.
- B. No major cut and fill will be required at the well site; however, it will require clearing and leveling.
- C. Mud pits in the active circulating system will be steel pits.

### 10. Plans for Restoration of Surface

- A. Following drilling and/or completion operations, all equipment and material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the well site as clean as possible.
- B. The unused pad area will be contoured to the natural terrain. Topsoil will be evenly distributed over the entire location.
- C. Upon cessation of production, all rehabilitation and/or vegetation requirements of the BLM will be complied with and will be accomplished as expeditiously as possible.
- D. Upon cessation of production, all disturbed areas will be seeded on the contour at a depth of one-half inch using the following mixture:
  - 1 pound per acre Alkali Sacaton (*Sporobolus airoides*)
  - 5 pound per acre Four-wing Saltbush (*Atriplex canescens*)
- E. Seeding will be completed after September 15<sup>th</sup> and prior to November 15<sup>th</sup> before freeze up or as early as possible the following spring to take advantage of available ground moisture.
- F. Newly constructed access road will be recontoured, disked, and seeded as specified above. All rehabilitation work, including seeding, will be completed as specified by the BLM, or sooner if conditions permit.

11. Surface Topography

A. The surface ownership is: USA – BLM  
620 E. Greene Street  
Carlsbad, NM 88220

Grazing Lease: Henry McDonald or Draper Bentley  
P. O. Box 597  
Loving, NM 88256

- B. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.
- C. The surface owner and grazing lessee have been contacted and notified of the staking of our well and our plans for drilling
- D. The wellsite and access route are located to the south of Harroun Ranch. The area is fairly flat with sandy loam soil underlain with caliche.
- E. The Pecos River is approximately 1-1/2 miles west/southwest of the general proximity of the location. There is also the Harroun Canal, which runs along the path of the river.
- F. There are no houses or building within one mile of the drillsite.
- F. Signs identifying and locating our well will be maintained at the drillsite and principle entrance, commencing with the spudding of the well.
- G. BTA has entered into a PB PA (MOA) agreement with the BLM for the cultural resources examination for this project.

12. Bond Coverage: NM1195

13. Operator's Representative:

- A. The field representative that is responsible for assuring compliance with the approved surface use plan is:

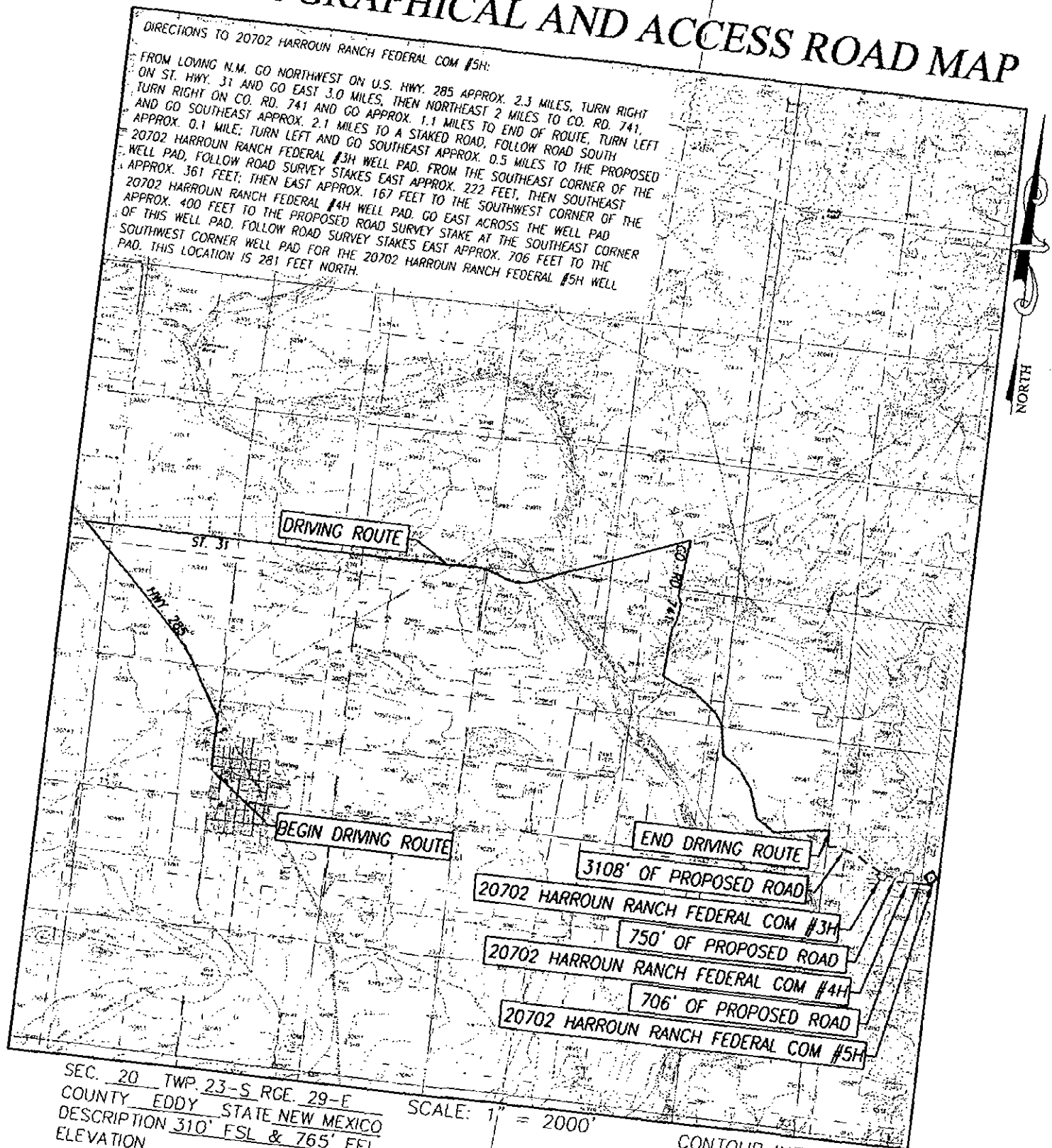
Drilling Manager: Mr. Nick Eaton  
Phone: 432-682-3753 (Office)  
432-260-7841 (Mobile)



# TOPOGRAPHICAL AND ACCESS ROAD MAP

DIRECTIONS TO 20702 HARROUN RANCH FEDERAL COM #5H:

FROM LOVING N.M. GO NORTHWEST ON U.S. HWY. 285 APPROX. 2.3 MILES, TURN RIGHT ON ST. HWY. 31 AND GO EAST 3.0 MILES, THEN NORTHEAST 2 MILES TO CO. RD. 741, TURN RIGHT ON CO. RD. 741 AND GO APPROX. 1.1 MILES TO END OF ROUTE, TURN LEFT AND GO SOUTHEAST APPROX. 2.1 MILES TO A STAKED ROAD, FOLLOW ROAD SOUTH APPROX. 0.1 MILE; TURN LEFT AND GO SOUTHEAST APPROX. 0.5 MILES TO THE PROPOSED 20702 HARROUN RANCH FEDERAL #3H WELL PAD, FROM THE SOUTHWEST CORNER OF THE WELL PAD, FOLLOW ROAD SURVEY STAKES EAST APPROX. 222 FEET, THEN SOUTHEAST APPROX. 361 FEET, THEN EAST APPROX. 167 FEET TO THE SOUTHWEST CORNER OF THE 20702 HARROUN RANCH FEDERAL #4H WELL PAD, GO EAST ACROSS THE WELL PAD APPROX. 400 FEET TO THE PROPOSED ROAD SURVEY STAKE AT THE SOUTHWEST CORNER OF THIS WELL PAD, FOLLOW ROAD SURVEY STAKES EAST APPROX. 706 FEET TO THE SOUTHWEST CORNER WELL PAD FOR THE 20702 HARROUN RANCH FEDERAL #5H WELL PAD, THIS LOCATION IS 281 FEET NORTH.



SEC. 20 TWP. 23-S RGE. 29-E  
COUNTY EDDY STATE NEW MEXICO  
DESCRIPTION 310' FSL & 765' FEL  
ELEVATION 3019'  
OPERATOR BTA OIL PRODUCERS  
LEASE 20702 HARROUN RANCH FEDERAL COM  
U.S.G.S. TOPOGRAPHIC MAP  
LOVING, N.M. SURVEY N.M.P.M.

SCALE: 1" = 2000'

CONTOUR INTERVAL:  
LOVING, N.M. - 10'

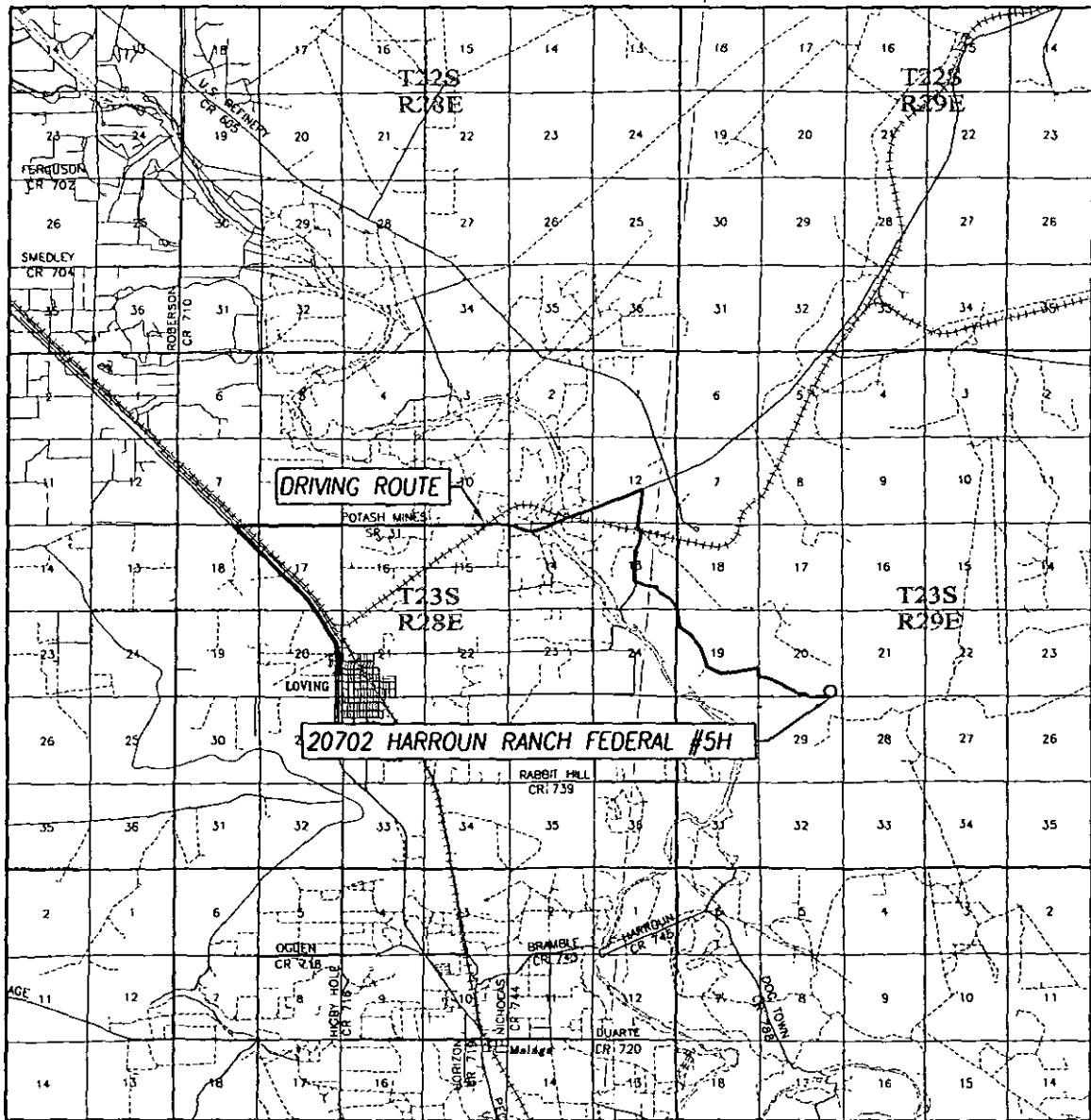
PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO HOBBS, N.M. 88240  
(575) 393-3117 [www.jwscbiz.com](http://www.jwscbiz.com)  
TBPLS/

**COPY**

BTA Oil Producers, LLC  
20702 Harroun Ranch Fed Com #5H  
Exhibit -B-  
Sec 20, T23S, R29E

# VICINITY MAP

BTA Oil Producers, LLC  
20702 Harroun Ranch Fed Com #5H  
Exhibit -C-  
Sec 20, T23S, R29E  
Eddy County, NM



SCALE: 1" = 2 MILES  
DRIVING ROUTE: SEE LOCATION VERIFICATION MAP

SEC. 20 TWP. 23-S RGE. 29-E  
SURVEY N.M.P.M.  
COUNTY EDDY STATE NEW MEXICO  
DESCRIPTION 210' FNL & 765' FEL  
ELEVATION 3019'  
OPERATOR BTA OIL PRODUCERS, LLC  
LEASE 20702 HARROUN RANCH FEDERAL

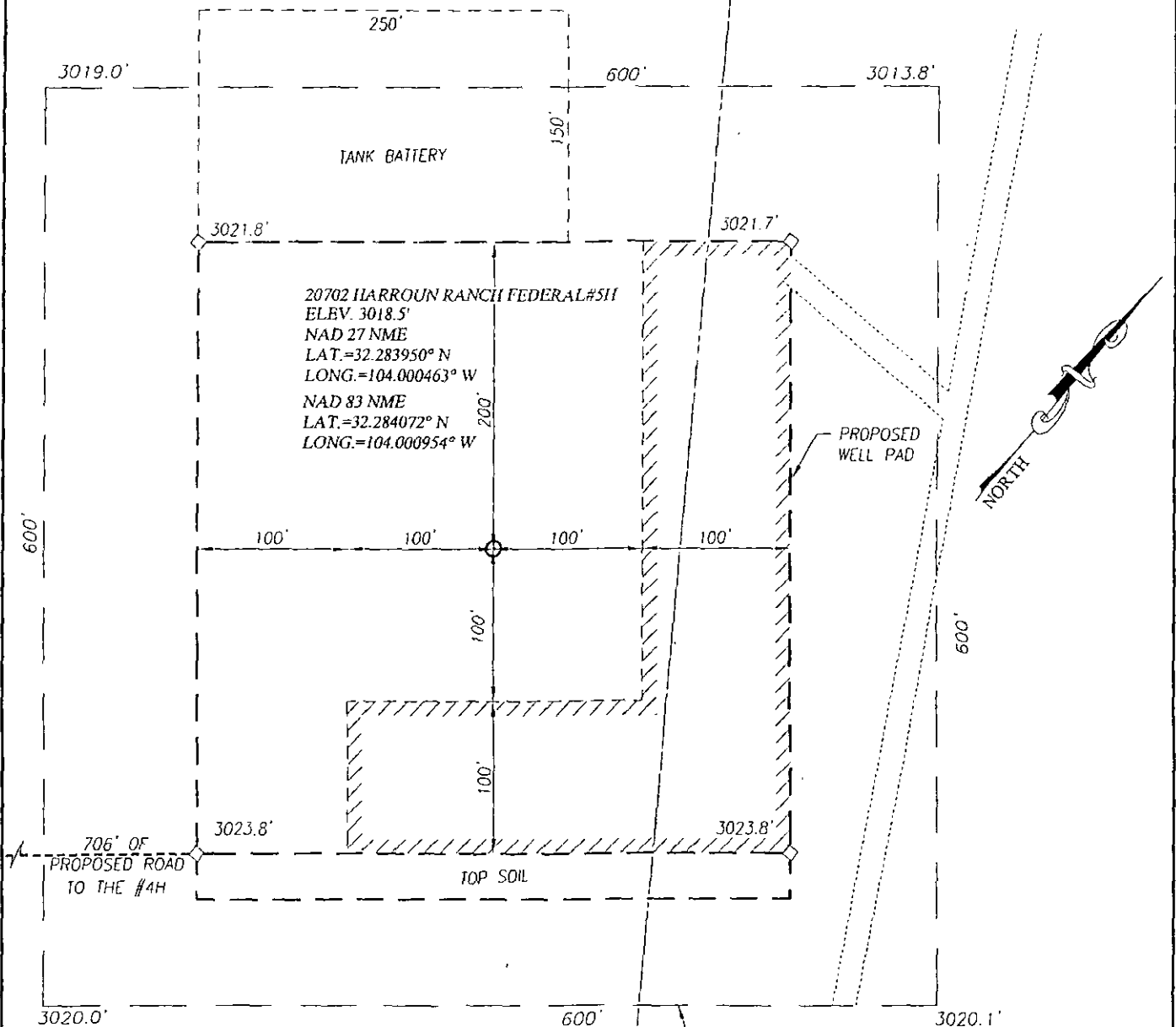
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SINCE 1946

**JOHN WEST SURVEYING COMPANY**

412 N. DAL PASO HOBBS, N.M. 88240  
(575) 393-3117 [www.jwsc.biz](http://www.jwsc.biz)  
TBPLS# 10021000

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# WELL SITE PLAN

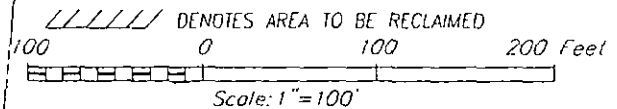


## DIRECTIONS TO 20702 HARROUN RANCH FEDERAL COM #5H:

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## NOTE:

1) SEE "LOCATION VERIFICATION MAP" FOR PROPOSED ROAD LOCATION.



## BTA OIL PRODUCERS, LLC

20702 HARROUN RANCH FEDERAL #5H WELL  
 LOCATED 310 FEET FROM THE SOUTH LINE  
 AND 765 FEET FROM THE EAST LINE OF SECTION 20,  
 TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.,  
 EDDY COUNTY, NEW MEXICO

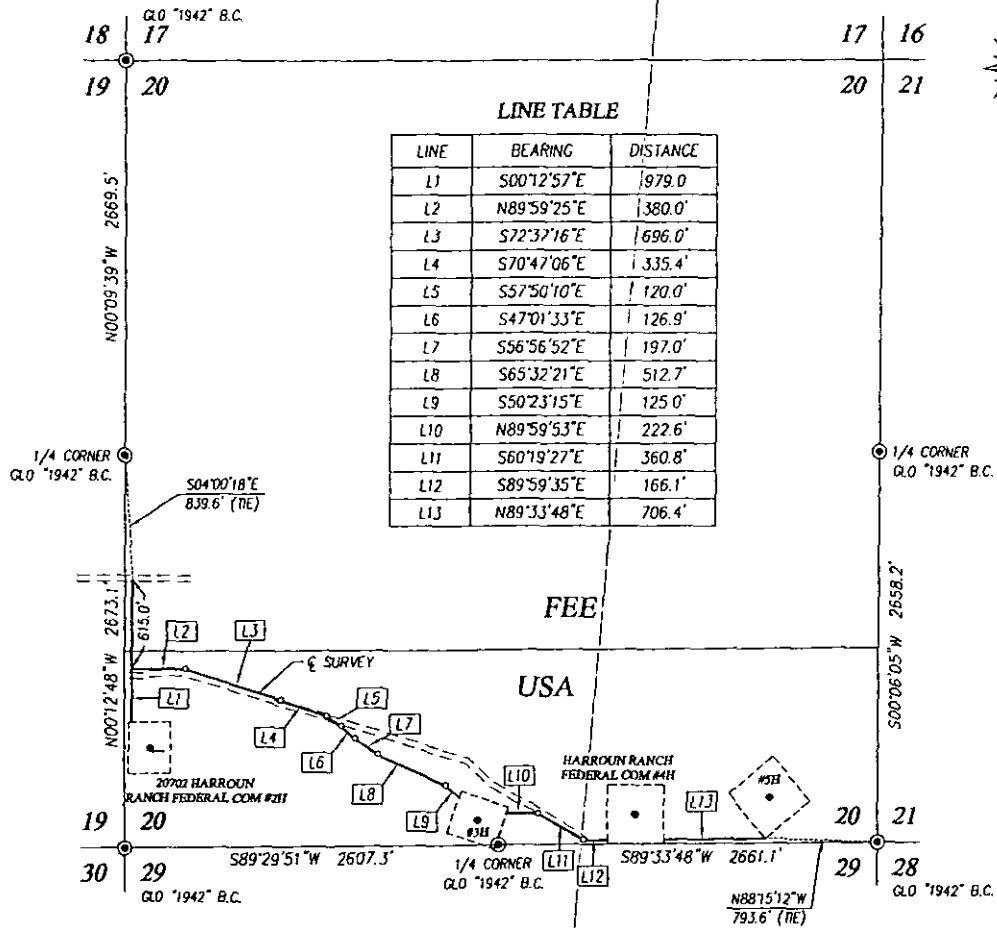


PROVIDING SURVEYING SERVICES  
 SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
 412 N. DAL PASO HOBBS, N.M. 88240  
 (575) 393-3117 www.jwsc.biz  
 TBPLS# 10021000

Survey Date: 11/6/14	CAD Date: 6/4/15	Drawn By: ACK
W.O. No.: 15130613	Rev.:	Rel. W.O.: 14111216

**COPY**

BTA Oil Producers, LLC  
20702 Harroun Ranch Fed Com #5H  
**Exhibit -E-**  
Sec 20, T23S, R29E  
Eddy County, NM



**NOTE**

BEARINGS SHOWN HEREON ARE MERIDIAN GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM, NEW MEXICO EAST ZONE, NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

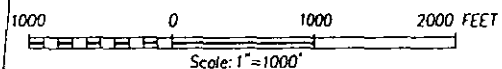
I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE LEGAL STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT THIS IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON *Ronald J. Eidson*

DATE: 06/05/2015

**LEGEND**

⊙ DENOTES FOUND CORNER AS NOTED



**BTA OIL PRODUCERS**

**SURVEY FOR A PROPOSED ROAD TO THE 20702 HARROUN RANCH FEDERAL COM #2H, #3H, #4H, #5H, CROSSING SECTION 20, TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO**

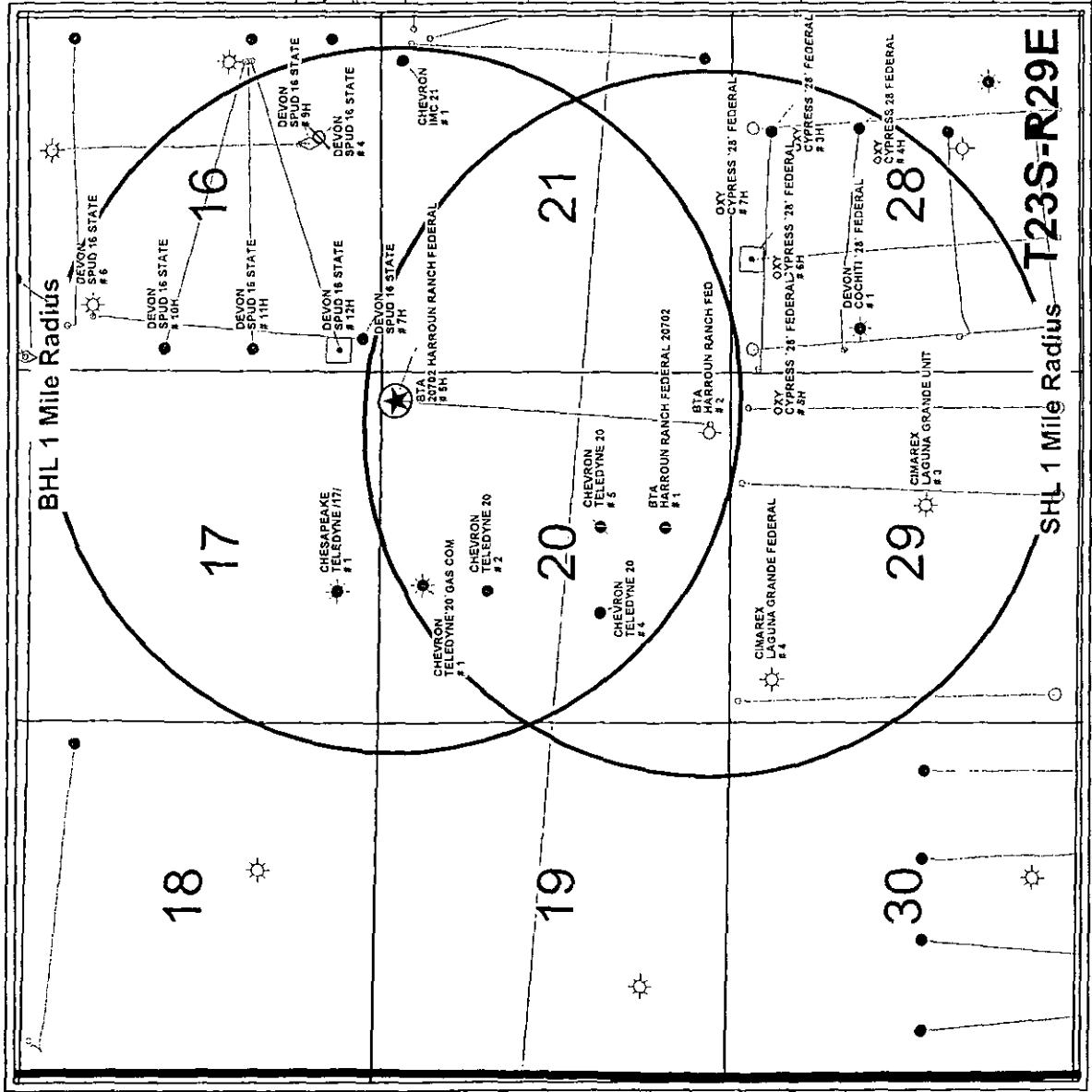
Survey Date: 3/13/15 CAD Date: 3/26/15 Drawn By: LSL  
W.O. No.: 15110378 Rev: 6/4/15 Ref. W.O.:

PROVIDING SURVEYING SERVICES SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO HOBBS, N.M. 88240  
(575) 393-3117 www.jwsurvey.com  
TBPLS# 10021000

© DRAFTING

**COPY**

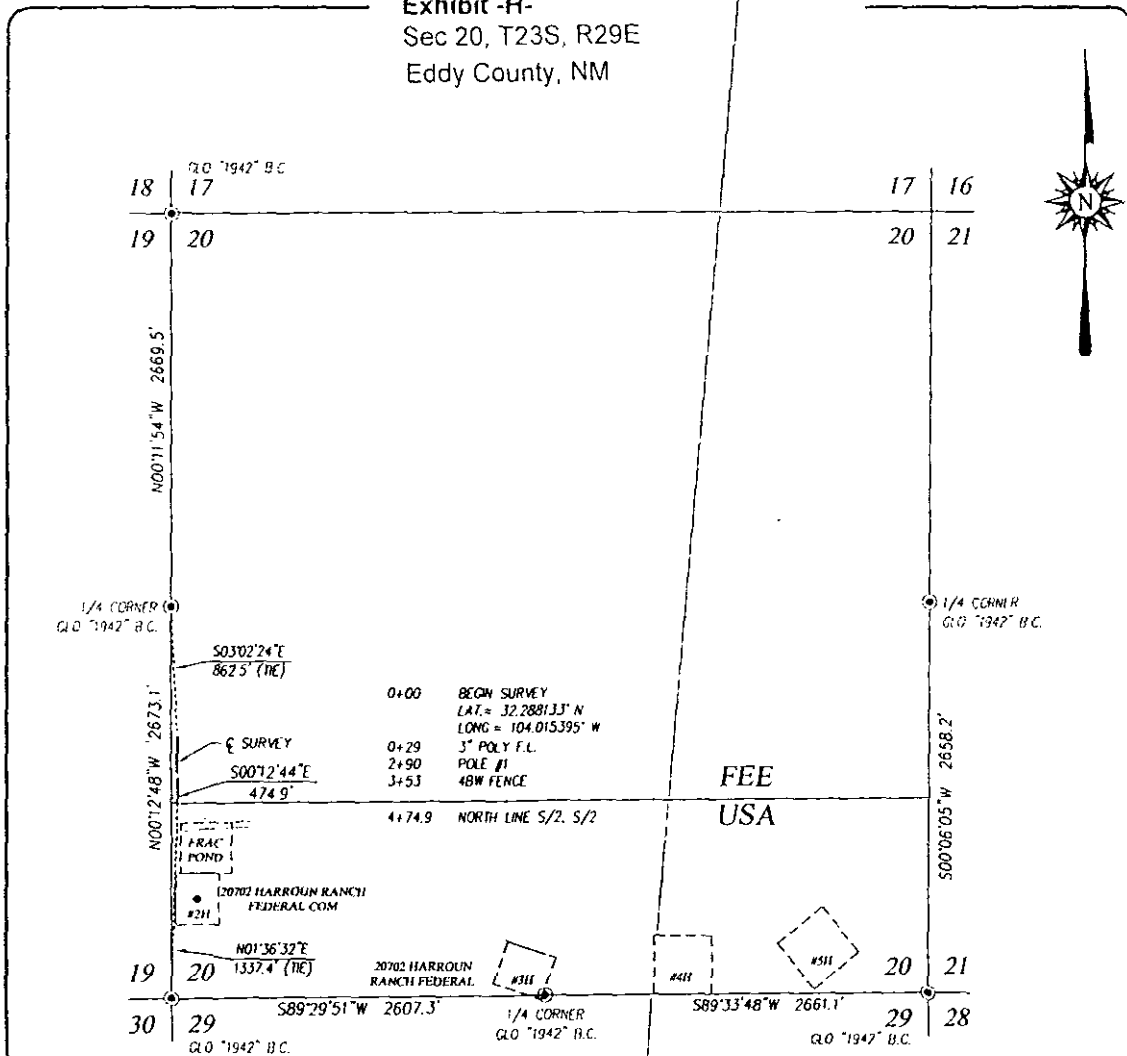
BTA Oil Producers, LLC  
 20702 Harroun Ranch Fed Com #5H  
 Exhibit -F.  
 Sec 20, T23S, R29E  
 Eddy County, NM



<b>BTA OIL PRODUCERS, LLC</b>	<b>20702 Harroun Ranch Fed Com #5H</b>
1 Mile Radius Map	SHL:310'FSL&765'FEL, BHL:210'FNL&430'FEL Sec.20,T23S, R29E, Eddy Co., NM
<b>WELL SYMBOLS</b> ★ Proposed Location ○ Location Only □ Drilled, Waiting on Completion ● Oil Well ☆ Gas Well ⊙ Oil & Gas Well ⊖ Dry Hole ⊗ Plugged & Abandoned Oil Well ⊕ Injection From Oil ⊙ Oil & Gas Well ⊖ Temporarily Abandoned	<b>REMARKS</b> 20702 Harroun Ranch Fed Com #5H Highlighted in Yellow Only Wells Inside 1 Mile Radius Labeled
By JHB	0 2,500 5,000 FEET

COPY





### DESCRIPTION

SURVEY FOR AN ELECTRIC LINE CROSSING SECTION 20, TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE SOUTHWEST QUARTER, WHICH LIES S03°02'24"E 862.5 FEET FROM THE WEST QUARTER CORNER; THEN S00°12'44"E 474.9 FEET TO A POINT IN THE NORTH LINE OF THE 1/2 OF THE S/2, WHICH LIES N01°36'32"E 1337.4 FEET FROM THE SOUTHWEST CORNER.

TOTAL LENGTH EQUALS 474.9 FEET OR 28.78 RODS.

**NOTE**

- 1) BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- 2) LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM 1983 (NAD83).

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239,  
DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY  
ON THE GROUND UPON WHICH IT IS BASED, WERE PERFORMED BY ME OR  
UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS  
SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR  
SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO  
THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON

DATE:

PROVIDING SURVEYING SERVICES  
SINCE 1946

**JOHN WEST SURVEYING COMPANY**

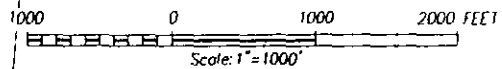
412 N. DAL PASO HOBBS, N.M. 88240

(575) 393-3117 [www.jwsc.biz](http://www.jwsc.biz)

TBPLS# 10021000

**LEGEND**

⊙ DENOTES FOUND CORNER AS NOTED



## BTA OIL PRODUCERS

SURVEY FOR AN ELECTRIC LINE TO THE  
20702 HARROUN RANCH FEDERAL COM #2H  
CROSSING SECTION 20,  
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

Survey Date: 3/13/15

CAD Date: 4/2/15

Drawn By: LSL

W.O. No.: 15110376

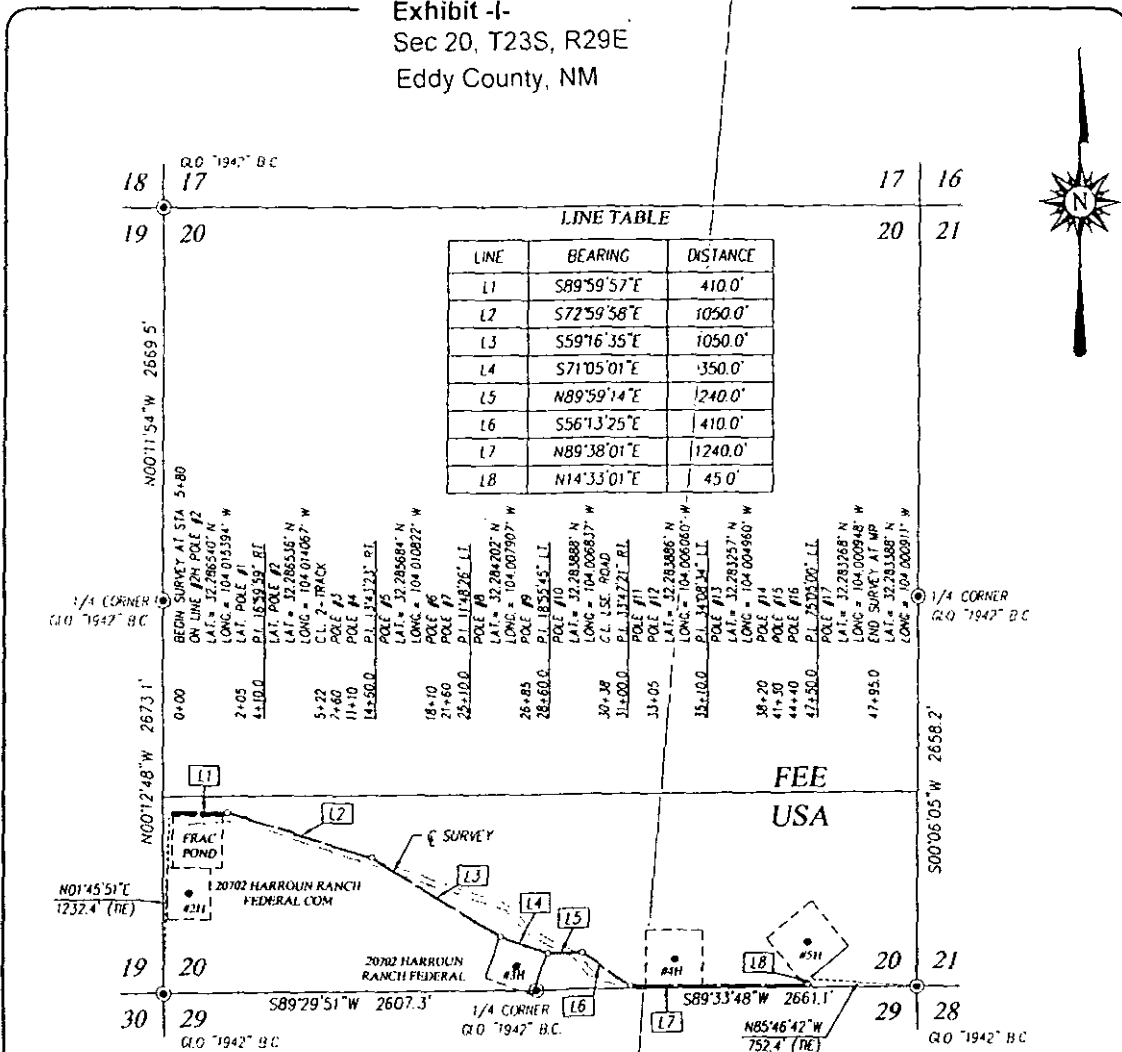
Rev. .

Rel. W.O.:

Sheet 1 of 2

**COPY**

BTA Oil Producers, LLC  
20702 Harroun Ranch Fed Com #5H  
Exhibit -I-  
Sec 20, T23S, R29E  
Eddy County, NM



**NOTE**

- 1) BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- 2) LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM 1983 (NAD83).

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON

DATE:

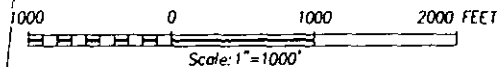
04/06/2015



PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO HORRIS, N.M. 88240  
(575) 393-3117 www.jwsurvey.com  
TBPILS# 10021000

**LEGEND**

⊙ DENOTES FOUND CORNER AS NOTED



**BTA OIL PRODUCERS**

SURVEY FOR AN ELECTRIC LINE TO THE  
20702 HARROUN RANCH FEDERAL  
#3H, #4H, & #5H CROSSING SECTION 20,  
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

Survey Date: 3/18/15

CAD Date: 4/2/15

Drawn By: LSL

W.O. No.: 15110376

Rev.:

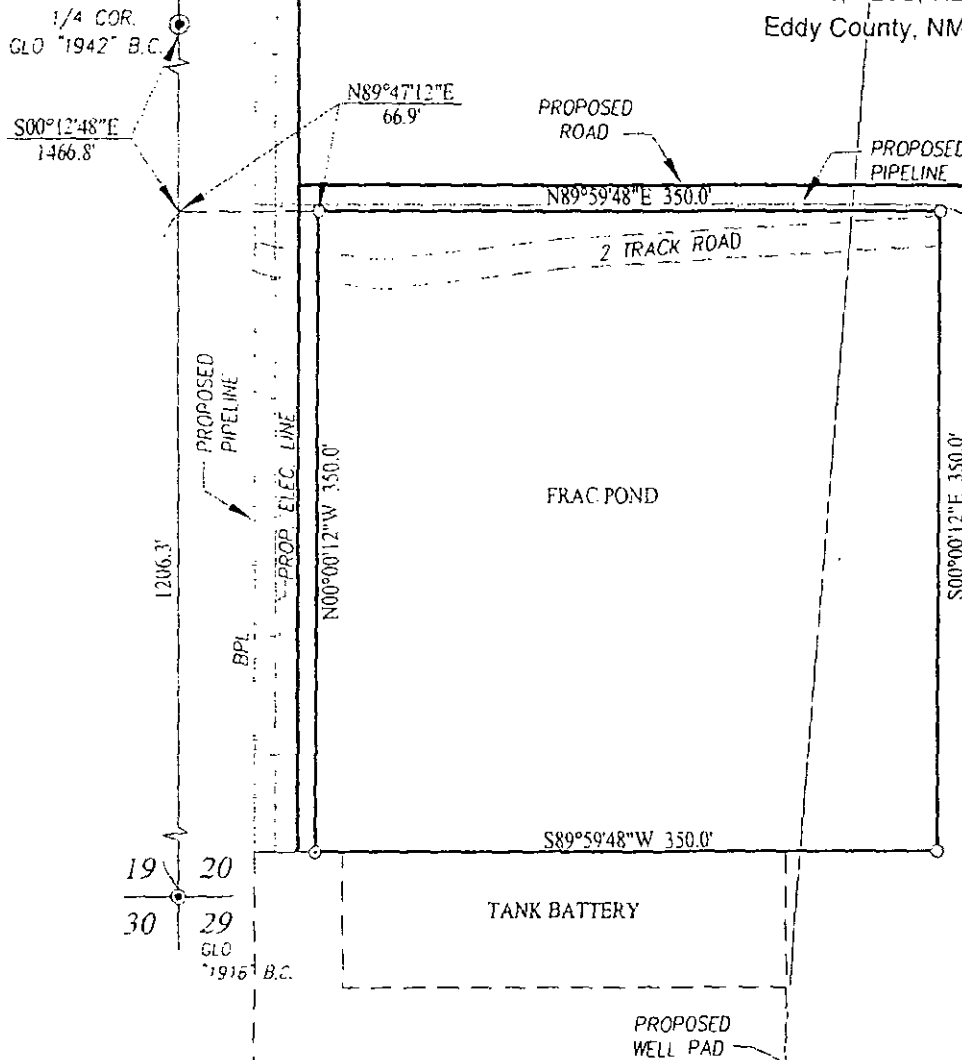
Rel. W.O.:

Sheet 1 of 1

**COPY**



BTA Oil Producers, LLC  
 20702 Harroun Ranch Fed Com #5H  
**Exhibit J-**  
 Sec 20, T23S, R29E  
 Eddy County, NM



**LEGEND**

- DENOTES FOUND CORNER AS NOTED
- DENOTES SET SPIKE NAIL

**NOTE**

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND, THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

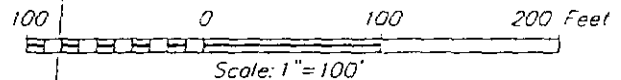
RONALD J. EIDSON

DATE: 04/01/2015

**DESCRIPTION:**

A track for a FRAC POND SITUATED IN THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER, WHICH LIES S00°12'48"E 1466.8 FEET AND N89°47'12"E 66.9 FEET FROM THE WEST 1/4 CORNER; THEN N89°59'48"E 350.0 FEET; THEN S00°00'12"W 350.0 FEET; THEN S89°59'48"W 350.0 FEET; THEN N00°00'12"W 350.0 FEET TO THE POINT OF BEGINNING AND CONTAINING 2.812 ACRES MORE OR LESS.



**BTA OIL PRODUCERS, LLC**

SURVEY FOR A FRAC POND  
 SITUATED IN THE SW/4 OF SECTION 20,  
 TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO

Survey Date: 3/13/15	CAD Date: 4/1/15	Drawn By: LSL
W.O. No.: 15110375	Rev:	Rel. W.O.:
		Sheet 1 of 1

PROVIDING SURVEYING SERVICES  
 SINCE 1946

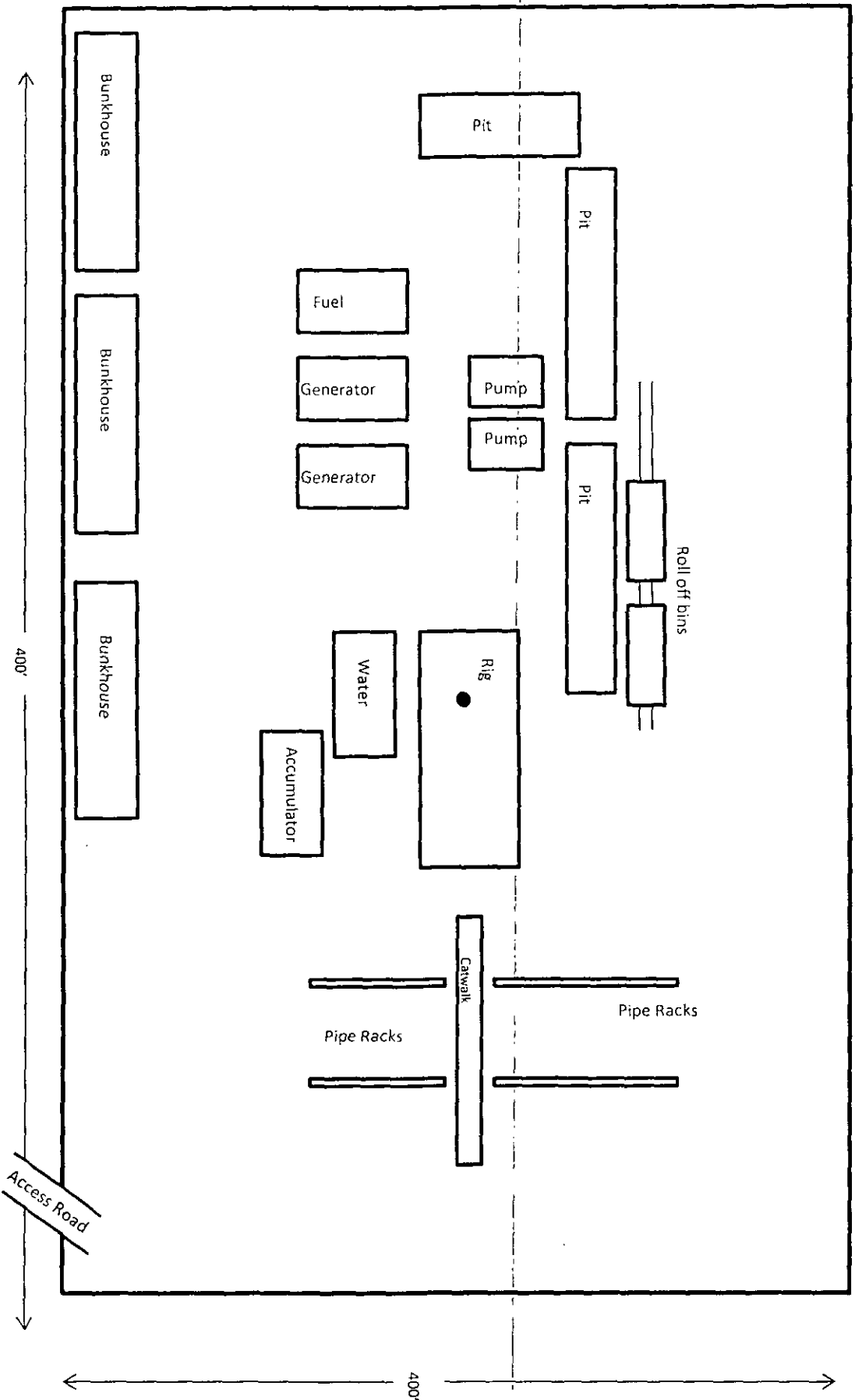
**JOHN WEST SURVEYING COMPANY**

412 N. DAL PASO HOBBS, N.M. 88240  
 (505) 393-3117 www.jwsc.biz  
 TBLPS# 10021000

**COPY**

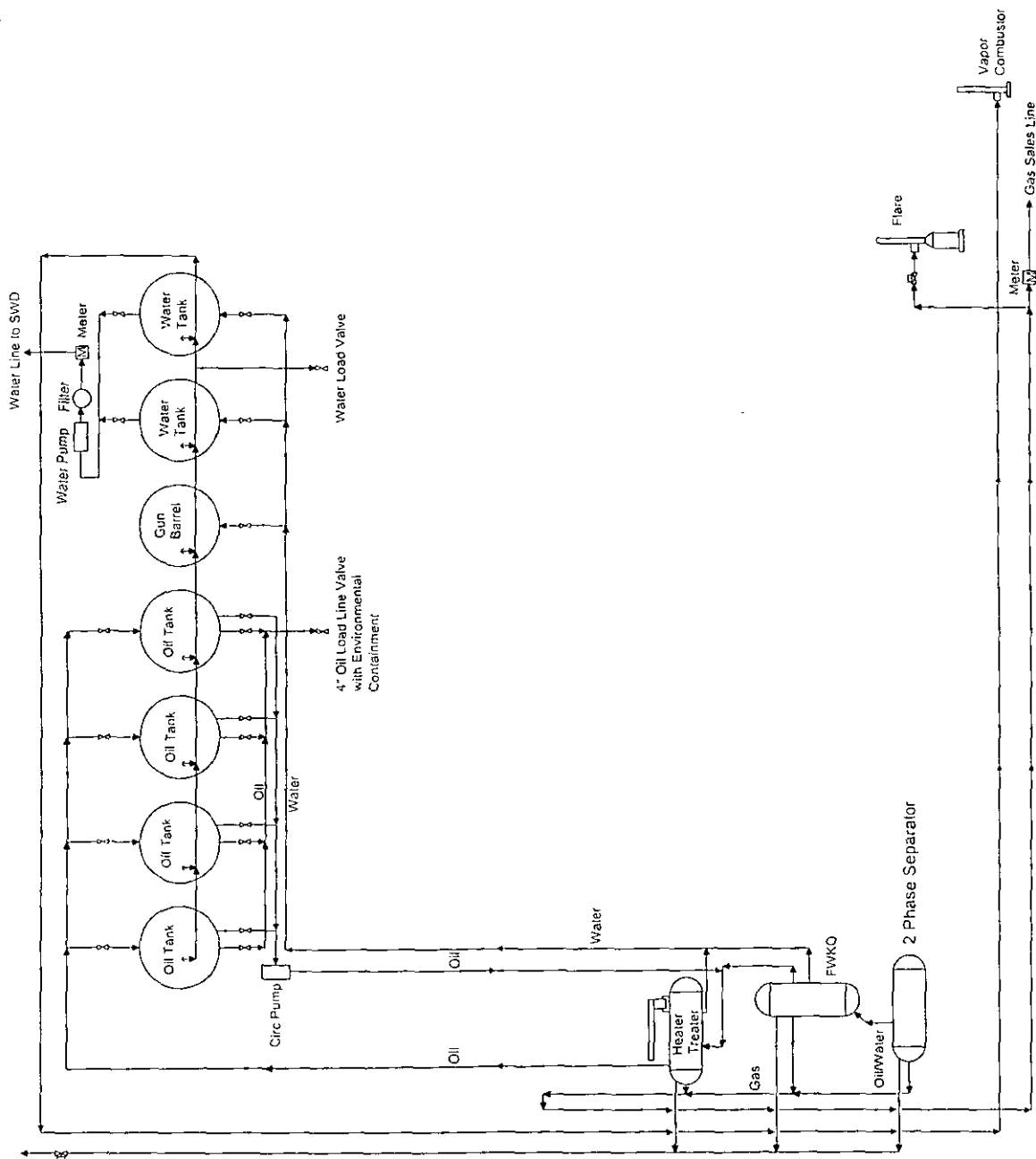
BTA Oil Producers, LLC  
20702 Harroun Ranch Fed Com #5H  
Exhibit -K-  
Sec 20, T23S, R29E  
Eddy County, NM

BTA Oil Producers  
20702 Harroun Ranch Fed Com #5H  
310' FSL 765' FEL  
Sec 20, 23S, 29E  
Eddy County, NM



COPY

Attachment to APD  
 BTA Oil Producers, LLC  
 20702 Harroun Ranch Fed Com #5H  
 Sec 20, T23S, R29E  
 Eddy County, NM



NOT TO SCALE  
**BTA Oil Producers, LLC**

20702 Harroun Ranch Fed Com  
 -Proposed-  
 Tank Battery  
 Section 20, T23S-R29E  
 Eddy County, NM

**COPY**

## APPLICATION FOR DRILLING

# COPY

BTA OIL PRODUCERS, LLC  
#5H, Harroun Ranch Federal Com, 20702  
310' FSL & 765' FEL  
Sec. 20, T23S, R29E Surface  
Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, BTA Oil Producers submits the following 10 items for pertinent information in accordance with BLM requirements:

1. Geologic surface formation is Quaternary.
2. Estimated top of geologic markers & depths of anticipated fresh water, oil or gas:

Anhydrite	337'	
Top of Salt	467'	
Base Salt	2,737'	
Delaware	2,952'	
Cherry Canyon	3,782'	
Brushy Canyon	4,987'	Oil
Bone Spring LM	6,652'	
1 <sup>st</sup> Bone Spring Sand	7,677'	Oil/Gas
2 <sup>nd</sup> Bone Spring Sand	8,442'	Oil/Gas

No other formations are expected to yield oil, gas, or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13-3/8" csg at 370' and circulating cement back to surface. Potash/fresh water sands will be protected by setting 9-5/8" csg at 2920' and circulating cement back to surface. The Delaware and Bone Spring intervals will be isolated by setting 5-1/2" csg to total depth and circulating cement above the base of the 9-5/8" casing.

All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished to the BLM, Division of Minerals. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.

Note: The first and last take will be no closer than 330' to the nearest section line.

3. Proposed Casing and Cementing Program:

Hole Size	OD Casing	Setting from	Depth to	Weight	Grade	Joint
17-1/2"	13-3/8"	0	370'	54.5#	J55	STC
12-1/4"	9-5/8"	0	2920'	36#	J55	STC
8-3/4"	5-1/2"	0	13,421'	17#	P110	LTC

Minimum Casing Design Factors:

Collapse	1.125
Burst	1.0
Tensile	1.8

Depending upon availability at the time that the casing is run, equivalent weights and grades may be substituted.

All casing will be new.

4. Cement Program:

I. Surface Casing:

- Lead: 220 sx Class-C.
  - 1.75 ft<sup>3</sup>/sk; 13.5 ppg
- Tail: 200 sx Class – C.
  - 1.34 ft<sup>3</sup>/sk; 14.8 ppg
- Cement circulated to surface. 100% Excess.

II. Intermediate Casing:

- Lead: 510 sx 35:65 Poz-C
  - 1.94 ft<sup>3</sup>/sk; 12.7 ppg
- Tail: 250 sx Class– C
  - 1.33 ft<sup>3</sup>/sk; 14.8 ppg
- Cement circulated to surface. 60% excess of open hole (will run fluid caliper to determine lead volume).

III. Production Casing:

- Lead: 700 sx 50:50 Class H
  - 2.92 ft<sup>3</sup>/sk; 11.3 ppg
- Tail: 950 sx 50:50 Class H
  - 1.22 ft<sup>3</sup>/sk; 14.4 ppg
- Cement calculated to tie back 500 ft into intermediate casing. 20% open hole excess.

Note: All casing strings will be pressure tested to 0.22 psi/ft. of setting depth or 1500 psi (whichever is greater) after cementing and prior to drill out.

5. Pressure Control Equipment:

The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (3M system) double ram type (3000 psi WP) preventer and a bag-type (Hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 4-½" drill pipe rams on bottom. The BOP's will be installed on the 13-3/8" surface casing and utilized continuously until TD is reached. All BOP's and associated equipment will be tested as per BLM drilling Operations Order No. 2.

Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 3000 psi WP rating.

6. Mud Program:

Surface to 370': 8.5 to 8.8 ppg fresh water spud with 35 to 45 sec/1000 cc viscosity.

370' to 2,920': Brine water. Will use lime for pH control in range 10 to 11. Will sweep hole with gel slugs as required for hole cleaning. Mud wt = 10 ppg.

2,920' to TD: 8.6 to 9.2 ppg controlled brine water. Will use lime for pH control in range 10 to 11. Will sweep hole with salt gel slugs as required for hole cleaning. Will use paper for seepage losses. Will adjust fluid weight as required using brine water.

7. Auxiliary Equipment:

- a) Upper Kelly cock valve with handle available.
- b) Lower Kelly cock valve with handle available.
- c) Safety valves and subs to fit all drill string connections in use.
- d) Monitoring of mud system will be mechanical.

8. Testing Logging and Coring Program:

Drill Stem Tests will be based on geological sample shows.

Open electrical logging program will be:

- i. TD to Surface: Gamma Ray
- ii. No coring program is planned.

9. Potential Hazards:

No abnormal pressures or temperatures are anticipated. If H<sub>2</sub>S is encountered, the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 3800 psi. Estimated BHT: 125° F. No H<sub>2</sub>S is anticipated to be encountered.

10. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig is available. Move in operations and drilling is expected to take 25 days. If

*production casing is run, an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines to place the well on production.*

Note: BLM onsite was conducted on November 25<sup>th</sup>, 2014 by Indra Dahal. An agreement has been entered into with CEHMM to prepare the EA.

Attachment to APD  
BTA Oil Producers, LLC  
20702 Harroun Ranch Fed Com #5H  
Sec 20, T23S, R29E  
Eddy County, NM

## **BTA Oil Producers, LLC**

Eddy County  
Harroun Ranch  
Harroun Ranch #5H

**Wellbore #1**

Plan: Design #1

## **Standard Planning Report**

26 May, 2015

**COPY**



# BTA Planning Report

Database: EDM 5000.1 Single User Db	Local Co-ordinate Reference: Well Harroun Ranch #5H
Company: BTA Oil Producers, LLC	TVD Reference: GL @ 3019.0usft (Original Well Elev)
Project: Eddy County	MD Reference: GL @ 3019.0usft (Original Well Elev)
Site: Harroun Ranch	North Reference: Grid
Well: Harroun Ranch #5H	Survey Calculation Method: Minimum Curvature
Wellbore: Wellbore #1	
Design: Design #1	

Project	Eddy County		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site	Harroun Ranch		
Site Position:	Northing:	467,011.30 usft	Latitude: 32° 17' 0.701 N
From: Map	Easting:	598,545.80 usft	Longitude: 104° 0' 52.034 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16"	Grid Convergence: 0.17°

Well	Harroun Ranch #5H		
Well Position	+N/-S	166.4 usft	Northing: 467,177.70 usft
	+E/-W	4,323.6 usft	Easting: 602,869.10 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
			Ground Level: 3,019.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	12/31/2009	7.95
			Dip Angle
			60.22
			Field Strength (nT)
			48,784

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			4.09

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth (usft)	(°)	(°)	Depth (usft)	(usft)	(usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,204.5	0.00	0.00	3,204.5	0.0	0.0	0.00	0.00	0.00	0.00	
3,504.5	6.00	129.42	3,504.0	-10.0	12.1	2.00	2.00	0.00	129.42	
7,724.2	6.00	129.42	7,700.5	-290.0	352.9	0.00	0.00	0.00	0.00	
8,024.2	0.00	0.00	8,000.0	-300.0	365.0	2.00	-2.00	0.00	180.00	
8,046.7	0.00	0.00	8,022.5	-300.0	365.0	0.00	0.00	0.00	0.00	
8,796.7	90.00	359.76	8,500.0	177.5	363.0	12.00	12.00	0.00	359.76	
13,420.5	90.00	359.76	8,500.0	4,801.2	343.6	0.00	0.00	0.00	0.00	Harroun Ranch #5H E

COPY

# BTA Planning Report

Database: EDM 5000.1 Single User Db  
Company: BTA Oil Producers, LLC  
Project: Eddy County  
Site: Harroun Ranch  
Well: Harroun Ranch #5H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference: Well Harroun Ranch #5H  
TVD Reference: GL @ 3019.0usft (Original Well Elev)  
MD Reference: GL @ 3019.0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
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2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,204.5	0.00	0.00	3,204.5	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	1.91	129.42	3,300.0	-1.0	1.2	-0.9	2.00	2.00	0.00
3,400.0	3.91	129.42	3,399.8	-4.2	5.2	-3.9	2.00	2.00	0.00
3,500.0	5.91	129.42	3,499.5	-9.7	11.8	-8.8	2.00	2.00	0.00
3,504.5	6.00	129.42	3,504.0	-10.0	12.1	-9.1	2.00	2.00	0.00
3,600.0	6.00	129.42	3,598.9	-16.3	19.8	-14.8	0.00	0.00	0.00
3,700.0	6.00	129.42	3,698.4	-22.9	27.9	-20.9	0.00	0.00	0.00
3,800.0	6.00	129.42	3,797.8	-29.6	36.0	-26.9	0.00	0.00	0.00
3,900.0	6.00	129.42	3,897.3	-36.2	44.1	-33.0	0.00	0.00	0.00
4,000.0	6.00	129.42	3,996.7	-42.9	52.1	-39.0	0.00	0.00	0.00
4,100.0	6.00	129.42	4,096.2	-49.5	60.2	-45.1	0.00	0.00	0.00
4,200.0	6.00	129.42	4,195.6	-56.1	68.3	-51.1	0.00	0.00	0.00
4,300.0	6.00	129.42	4,295.1	-62.8	76.4	-57.2	0.00	0.00	0.00
4,400.0	6.00	129.42	4,394.5	-69.4	84.4	-63.2	0.00	0.00	0.00
4,500.0	6.00	129.42	4,494.0	-76.0	92.5	-69.2	0.00	0.00	0.00
4,600.0	6.00	129.42	4,593.5	-82.7	100.6	-75.3	0.00	0.00	0.00
4,700.0	6.00	129.42	4,692.9	-89.3	108.7	-81.3	0.00	0.00	0.00
4,800.0	6.00	129.42	4,792.4	-95.9	116.7	-87.4	0.00	0.00	0.00
4,900.0	6.00	129.42	4,891.8	-102.6	124.8	-93.4	0.00	0.00	0.00
5,000.0	6.00	129.42	4,991.3	-109.2	132.9	-99.5	0.00	0.00	0.00
5,100.0	6.00	129.42	5,090.7	-115.9	141.0	-105.5	0.00	0.00	0.00

COPY

**BTA**  
Planning Report

Database: EDM 5000.1 Single User Db  
Company: BTA Oil Producers, LLC  
Project: Eddy County  
Site: Harroun Ranch  
Well: Harroun Ranch #5H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference: Well Harroun Ranch #5H  
TVD Reference: GL @ 3019.0usft (Original Well Elev)  
MD Reference: GL @ 3019.0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	6.00	129.42	5,190.2	-122.5	149.0	-111.5	0.00	0.00	0.00
5,300.0	6.00	129.42	5,289.6	-129.1	157.1	-117.6	0.00	0.00	0.00
5,400.0	6.00	129.42	5,389.1	-135.8	165.2	-123.6	0.00	0.00	0.00
5,500.0	6.00	129.42	5,488.5	-142.4	173.3	-129.7	0.00	0.00	0.00
5,600.0	6.00	129.42	5,588.0	-149.0	181.3	-135.7	0.00	0.00	0.00
5,700.0	6.00	129.42	5,687.4	-155.7	189.4	-141.8	0.00	0.00	0.00
5,800.0	6.00	129.42	5,786.9	-162.3	197.5	-147.8	0.00	0.00	0.00
5,900.0	6.00	129.42	5,886.3	-169.0	205.6	-153.9	0.00	0.00	0.00
6,000.0	6.00	129.42	5,985.8	-175.6	213.6	-159.9	0.00	0.00	0.00
6,100.0	6.00	129.42	6,085.2	-182.2	221.7	-165.9	0.00	0.00	0.00
6,200.0	6.00	129.42	6,184.7	-188.9	229.8	-172.0	0.00	0.00	0.00
6,300.0	6.00	129.42	6,284.1	-195.5	237.9	-178.0	0.00	0.00	0.00
6,400.0	6.00	129.42	6,383.6	-202.1	245.9	-184.1	0.00	0.00	0.00
6,500.0	6.00	129.42	6,483.0	-208.8	254.0	-190.1	0.00	0.00	0.00
6,600.0	6.00	129.42	6,582.5	-215.4	262.1	-196.2	0.00	0.00	0.00
6,700.0	6.00	129.42	6,681.9	-222.1	270.2	-202.2	0.00	0.00	0.00
6,800.0	6.00	129.42	6,781.4	-228.7	278.2	-208.2	0.00	0.00	0.00
6,900.0	6.00	129.42	6,880.9	-235.3	286.3	-214.3	0.00	0.00	0.00
7,000.0	6.00	129.42	6,980.3	-242.0	294.4	-220.3	0.00	0.00	0.00
7,100.0	6.00	129.42	7,079.8	-248.6	302.5	-226.4	0.00	0.00	0.00
7,200.0	6.00	129.42	7,179.2	-255.2	310.5	-232.4	0.00	0.00	0.00
7,300.0	6.00	129.42	7,278.7	-261.9	318.6	-238.5	0.00	0.00	0.00
7,400.0	6.00	129.42	7,378.1	-268.5	326.7	-244.5	0.00	0.00	0.00
7,500.0	6.00	129.42	7,477.6	-275.2	334.8	-250.6	0.00	0.00	0.00
7,600.0	6.00	129.42	7,577.0	-281.8	342.8	-256.6	0.00	0.00	0.00
7,700.0	6.00	129.42	7,676.5	-288.4	350.9	-262.6	0.00	0.00	0.00
7,724.2	6.00	129.42	7,700.5	-290.0	352.9	-264.1	0.00	0.00	0.00
7,800.0	4.48	129.42	7,776.0	-294.4	358.2	-268.1	2.00	-2.00	0.00
7,900.0	2.48	129.42	7,875.8	-298.3	362.9	-271.6	2.00	-2.00	0.00
8,000.0	0.48	129.42	7,975.8	-299.9	364.9	-273.1	2.00	-2.00	0.00
8,024.2	0.00	0.00	8,000.0	-300.0	365.0	-273.2	2.00	-2.00	0.00
8,046.7	0.00	0.00	8,022.5	-300.0	365.0	-273.2	0.00	0.00	0.00
8,100.0	6.39	359.76	8,075.7	-297.0	365.0	-270.2	12.00	12.00	0.00
8,200.0	18.39	359.76	8,173.2	-275.6	364.9	-248.9	12.00	12.00	0.00
8,300.0	30.39	359.76	8,264.1	-234.4	364.7	-207.8	12.00	12.00	0.00
8,400.0	42.39	359.76	8,344.4	-175.2	364.5	-148.7	12.00	12.00	0.00
8,500.0	54.39	359.76	8,410.7	-100.5	364.2	-74.3	12.00	12.00	0.00
8,600.0	66.39	359.76	8,460.0	-13.8	363.8	12.2	12.00	12.00	0.00
8,700.0	78.39	359.76	8,490.2	81.4	363.4	107.1	12.00	12.00	0.00
8,796.7	90.00	359.76	8,500.0	177.5	363.0	202.9	12.00	12.00	0.00
8,800.0	90.00	359.76	8,500.0	180.7	363.0	206.2	0.00	0.00	0.00
8,900.0	90.00	359.76	8,500.0	280.7	362.6	305.9	0.00	0.00	0.00
9,000.0	90.00	359.76	8,500.0	380.7	362.1	405.6	0.00	0.00	0.00
9,100.0	90.00	359.76	8,500.0	480.7	361.7	505.3	0.00	0.00	0.00
9,200.0	90.00	359.76	8,500.0	580.7	361.3	605.0	0.00	0.00	0.00
9,300.0	90.00	359.76	8,500.0	680.7	360.9	704.7	0.00	0.00	0.00
9,400.0	90.00	359.76	8,500.0	780.7	360.5	804.4	0.00	0.00	0.00
9,500.0	90.00	359.76	8,500.0	880.7	360.1	904.2	0.00	0.00	0.00
9,600.0	90.00	359.76	8,500.0	980.7	359.6	1,003.9	0.00	0.00	0.00
9,700.0	90.00	359.76	8,500.0	1,080.7	359.2	1,103.6	0.00	0.00	0.00
9,800.0	90.00	359.76	8,500.0	1,180.7	358.8	1,203.3	0.00	0.00	0.00
9,900.0	90.00	359.76	8,500.0	1,280.7	358.4	1,303.0	0.00	0.00	0.00
10,000.0	90.00	359.76	8,500.0	1,380.7	358.0	1,402.7	0.00	0.00	0.00
10,100.0	90.00	359.76	8,500.0	1,480.7	357.5	1,502.4	0.00	0.00	0.00

COPY

**BTA**  
Planning Report

Database: EDM 5000.1 Single User Db  
Company: BTA Oil Producers, LLC  
Project: Eddy County  
Site: Harroun Ranch  
Well: Harroun Ranch #5H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference: Well Harroun Ranch #5H  
TVD Reference: GL @ 3019.0usft (Original Well Elev)  
MD Reference: GL @ 3019.0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

**Planned Survey**

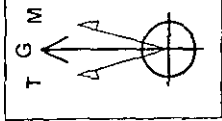
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.0	90.00	359.76	8,500.0	1,580.7	357.1	1,602.2	0.00	0.00	0.00
10,300.0	90.00	359.76	8,500.0	1,680.7	356.7	1,701.9	0.00	0.00	0.00
10,400.0	90.00	359.76	8,500.0	1,780.7	356.3	1,801.6	0.00	0.00	0.00
10,500.0	90.00	359.76	8,500.0	1,880.7	355.9	1,901.3	0.00	0.00	0.00
10,600.0	90.00	359.76	8,500.0	1,980.7	355.4	2,001.0	0.00	0.00	0.00
10,700.0	90.00	359.76	8,500.0	2,080.7	355.0	2,100.7	0.00	0.00	0.00
10,800.0	90.00	359.76	8,500.0	2,180.7	354.6	2,200.4	0.00	0.00	0.00
10,900.0	90.00	359.76	8,500.0	2,280.7	354.2	2,300.2	0.00	0.00	0.00
11,000.0	90.00	359.76	8,500.0	2,380.7	353.8	2,399.9	0.00	0.00	0.00
11,100.0	90.00	359.76	8,500.0	2,480.7	353.3	2,499.6	0.00	0.00	0.00
11,200.0	90.00	359.76	8,500.0	2,580.7	352.9	2,599.3	0.00	0.00	0.00
11,300.0	90.00	359.76	8,500.0	2,680.7	352.5	2,699.0	0.00	0.00	0.00
11,400.0	90.00	359.76	8,500.0	2,780.7	352.1	2,798.7	0.00	0.00	0.00
11,500.0	90.00	359.76	8,500.0	2,880.7	351.7	2,898.4	0.00	0.00	0.00
11,600.0	90.00	359.76	8,500.0	2,980.7	351.3	2,998.2	0.00	0.00	0.00
11,700.0	90.00	359.76	8,500.0	3,080.7	350.8	3,097.9	0.00	0.00	0.00
11,800.0	90.00	359.76	8,500.0	3,180.7	350.4	3,197.6	0.00	0.00	0.00
11,900.0	90.00	359.76	8,500.0	3,280.7	350.0	3,297.3	0.00	0.00	0.00
12,000.0	90.00	359.76	8,500.0	3,380.7	349.6	3,397.0	0.00	0.00	0.00
12,100.0	90.00	359.76	8,500.0	3,480.7	349.2	3,496.7	0.00	0.00	0.00
12,200.0	90.00	359.76	8,500.0	3,580.7	348.7	3,596.4	0.00	0.00	0.00
12,300.0	90.00	359.76	8,500.0	3,680.7	348.3	3,696.2	0.00	0.00	0.00
12,400.0	90.00	359.76	8,500.0	3,780.7	347.9	3,795.9	0.00	0.00	0.00
12,500.0	90.00	359.76	8,500.0	3,880.7	347.5	3,895.6	0.00	0.00	0.00
12,600.0	90.00	359.76	8,500.0	3,980.7	347.1	3,995.3	0.00	0.00	0.00
12,700.0	90.00	359.76	8,500.0	4,080.7	346.6	4,095.0	0.00	0.00	0.00
12,800.0	90.00	359.76	8,500.0	4,180.7	346.2	4,194.7	0.00	0.00	0.00
12,900.0	90.00	359.76	8,500.0	4,280.7	345.8	4,294.4	0.00	0.00	0.00
13,000.0	90.00	359.76	8,500.0	4,380.7	345.4	4,394.2	0.00	0.00	0.00
13,100.0	90.00	359.76	8,500.0	4,480.7	345.0	4,493.9	0.00	0.00	0.00
13,200.0	90.00	359.76	8,500.0	4,580.7	344.6	4,593.6	0.00	0.00	0.00
13,300.0	90.00	359.76	8,500.0	4,680.7	344.1	4,693.3	0.00	0.00	0.00
13,400.0	90.00	359.76	8,500.0	4,780.7	343.7	4,793.0	0.00	0.00	0.00
13,420.5	90.00	359.76	8,500.0	4,801.2	343.6	4,813.5	0.00	0.00	0.00

Harroun Ranch #5H BHL

**Design Targets**

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Harroun Ranch #5H BHL	0.00	0.00	8,500.0	4,801.2	343.6	471,978.50	603,212.70	32° 17' 49.717 N	103° 59' 57.489 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

COPY

	Azimuths to Grid North	
	True North: -0.18°	
	Magnetic North: 7.77°	
	Magnetic Field	
	Strength: 48784.0snT	
	Dip Angle: 60.22°	
	Date: 12/31/2009	
	Model: IGRF200510	

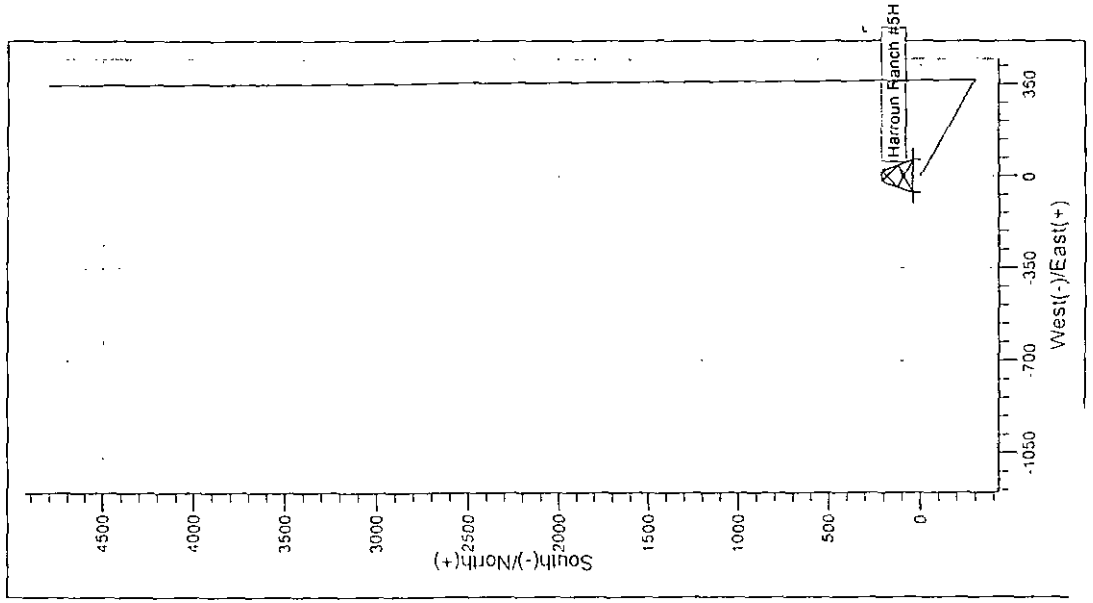
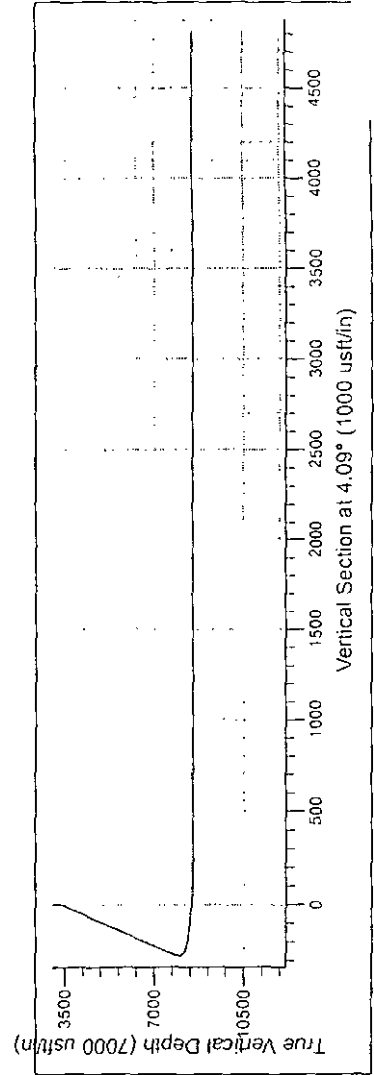
WELL DETAILS: Harroun Ranch #5H			
+N/-S	+E/-W	Northing	Ground Level:
0.0	0.0	467177.70	3019.0
			Easting
			602869.1032° 17' 2.218 N 104° 0' 1.666 W
			Latitude
			Longitude

SITE DETAILS: Harroun Ranch
Site Centre Northing: 467011.30
Easting: 598545.80
Positional Uncertainty: 0.0
Convergence: 0.17
Local North: Grid

CASING DETAILS
----------------

BTA Oil Producers, LLC
PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Ground Level

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2900.0	0.00	0.00	2900.0	0.0	0.0	0.00	0.00	0.0	
3204.5	0.00	0.00	3204.5	0.0	0.0	0.00	0.00	0.0	
3504.5	6.00	129.42	3504.0	-10.0	12.1	2.00	129.42	-9.1	
7724.2	6.00	129.42	7700.5	-290.0	352.9	0.00	0.00	-264.1	
8024.2	0.00	0.00	8000.0	-300.0	365.0	2.00	180.00	-273.2	
8046.7	0.00	0.00	8022.5	-300.0	365.0	0.00	0.00	-273.2	
8796.7	90.00	359.76	8500.0	177.5	363.0	12.00	359.76	202.9	
13420.5	90.00	359.76	8500.0	4801.2	343.6	0.00	0.00	4813.5	



The 13-5/8" blowout preventer equipment (BOP) shown in exhibit A will consist of a (3M system) double ram type (3000 psi WP) preventer and a bag type (Hydril) preventer (3000 psi WP). Will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. The BOP's will be installed don the 13-3/8" casing and utilized continuously until TD is reached. All BOP's and associated equipment will be tested as per BLM drilling operations order No 2.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 3000 psi WP rating.

**COPY**

## 3,000 psi BOP Schematic

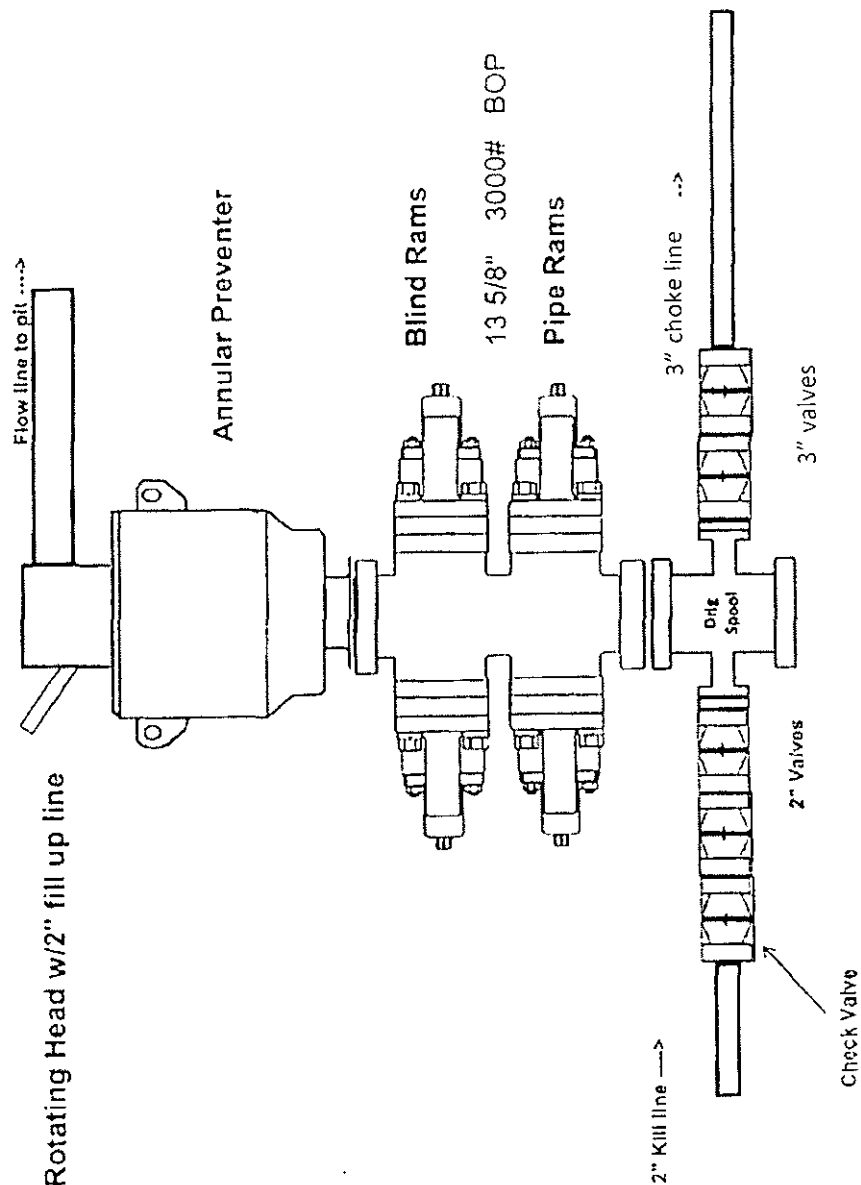
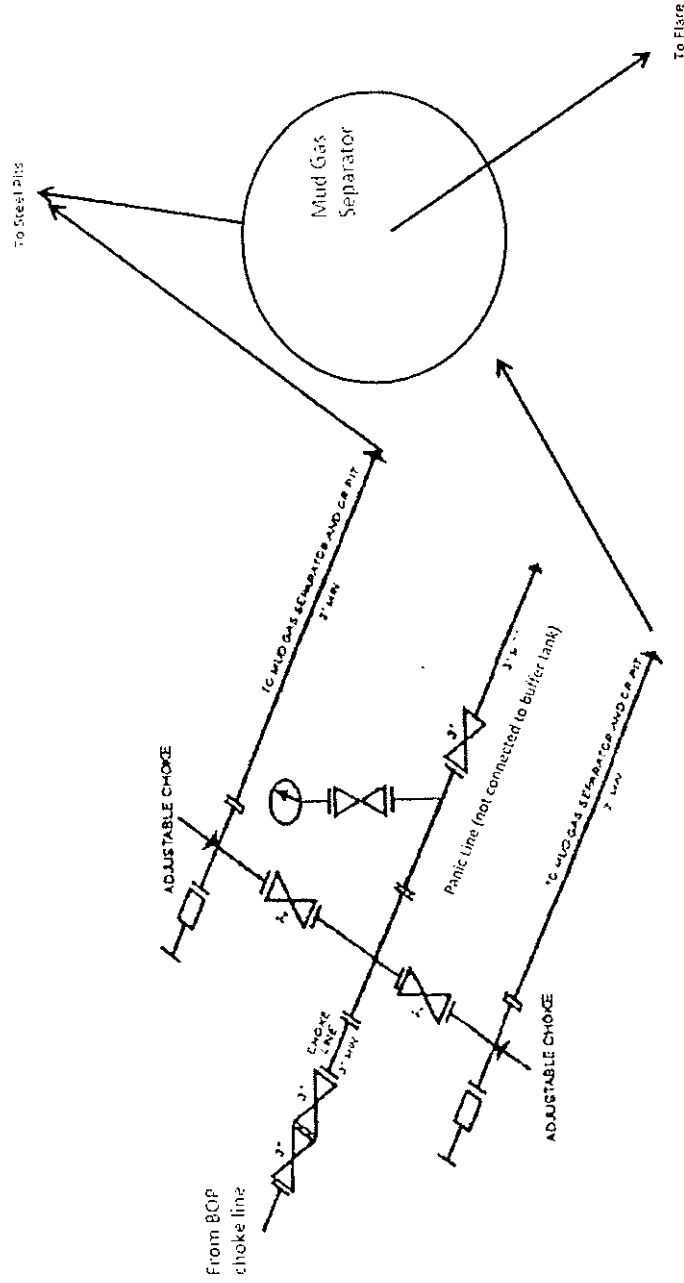


Exhibit A

COPY

Attachment to APD  
 BTA Oil Producers, LLC  
 20702 Harroun Ranch Fed Com #5H  
 Sec 20, T23S, R29E  
 Eddy County, NM



3M choke manifold design

Exhibit A1

copy



**BTA OIL PRODUCERS LLC**  
**HYDROGEN SULFIDE DRILLING OPERATIONS PLAN**

**1. HYDROGEN SULFIDE TRAINING**

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H<sub>2</sub>S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

**2. H<sub>2</sub>S SAFETY EQUIPMENT AND SYSTEMS**

Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H<sub>2</sub>S. If H<sub>2</sub>S greater than 100 ppm is encountered in the gas stream we will shut in and install H<sub>2</sub>S equipment.

- a. Well Control Equipment:
  - Flare line.
  - Choke manifold with remotely operated choke.
  - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
  - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.
- b. Protective equipment for essential personnel:
  - Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H<sub>2</sub>S detection and monitoring equipment:
  - 2 - portable H<sub>2</sub>S monitor positioned on location for best coverage and

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response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

d. Visual warning systems:

Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

e. Mud Program:

The mud program has been designed to minimize the volume of H2S circulated to the surface.

f. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

g. Communication:

Company vehicles equipped with cellular telephone.

BTA OIL PRODUCERS LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

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# **W A R N I N G**

**YOU ARE ENTERING AN H<sub>2</sub>S AREA  
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH BTA OIL PRODUCERS LLC FOREMAN AT MAIN OFFICE***

**BTA OIL PRODUCERS LLC**

**1-432-682-3753**

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## EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
BTA OIL PRODUCERS, LLC OFFICE	432-682-3753	
BEN GRIMES, Operations	432-682-3753	432-559-4309
NICK EATON, Drilling	432-682-3753	432-260-7841

## EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

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## OPERATOR CERTIFICATION

BTA OIL PRODUCERS, LLC  
#5H, Harroun Ranch Federal, 20702  
310' FSL & 765' FEL  
UL -P-, Sec. 20, T23S, R29E Surface  
210' FNL & 430' FEL  
UL -A-, Sec. 20, T23S, R29E Bottom  
Eddy County, New Mexico

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 USC 1001 for the filing of false statements. Executed this 8<sup>th</sup> day of June, 2015.

Signed: Kayla McConnell

Printed Name: Kayla McConnell  
Position: Regulatory Analyst  
Address: 104 S Pecos, Midland, TX 79701  
Telephone: (432) 682-3753  
Field Representative: Nick Eaton, Drilling Manager  
E-mail: [kmccconnell@btaoil.com](mailto:kmccconnell@btaoil.com)

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