

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Albuquerque, NM 88210

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

APR 28 2005

RECEIVED

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

BURNETT OIL CO., INC.

3a. Address 801 CHERRY STREET, SUITE 1500
UNIT #9, FORT WORTH, TX. 76102-6881

3b. Phone No. (include area code)
(817) 332-5108

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

UNIT B, 1220' FNL, 2310' FEL, SEC 24, T17S, R30E (Surface)
UNIT C, 1240' FSL, 2135' FEL (Bottom Hole)

AMENDED

5. Lease Serial No.

NMLC029339A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

JACKSON A #31

9. API Well No.

30-015-34000 S1

10. Field and Pool, or Exploratory Area

CEDAR LAKE YESO

11. County or Parish, State

Eddy County, N.M.

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other <u>NEW WELL</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

3/3-29/05 Install pumping unit and electricity. Drill out DV tool (4309') test casing to 1000 psi- held ok. Perf 5035'-7016'- total of 120 holes @ 6 SPF. 7014'-7016' Acidize w/4200 gals gelled water, 5460 gals 20% hot Hcl . 6797'-99' Frac w/ 23646 gals gelled water, 14122 gals 20% hot acid, 1680 gals 15% cool acid. 5035'-7016' Frac w/ 198072 gals gelled water, 113400 gals 20% hot Nefe, 37716 gals 15% Nefe Acid. Run 2 7/8" Tbg. & 3/4" & 7/8" rods. Put well to pumping.

ACCEPTED FOR RECORD

APR 27 2005

LES BABYAK
PETROLEUM ENGINEER

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

STERLING RANDOLPH

Title

PETROLEUM ENGINEER

Signature

Date

4/21/05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on reverse)

WELLBORE SCHEMATIC
BURNETT OIL CO. INC
JACKSON A31 WELL
EDDY CO., NM

432' - 11 3/4" 40 #/ft H40 CS9
Cemented to Surface

3071' - 8 5/8" 32 #/ft J55 CS9
Cemented to Surface

5 1/2" DV Tool at 4387' MD
Kick off point at 4433' MD
2 7/8" 6.5 #/ft EUE Tubing at 4529' MD with Sub Pump

TD 7120' MD
5 1/2" 17 #/ft J-55 CS9
Set at 7120' MD
Cemented to Surface

PERFORATED
INTERVALS →

5035'-37' MD

5240'-42' MD

5511'-18' MD

5713'-15' MD

5914'-12' MD

6151'-53' MD

6354'-52' MD

6592'-94' MD

6797'-99' MD

7014'-16' MD

Arrant, Bryan

To: Mr. Sterling Randolph and Mr. James Arline
Subject: Jackson A 3# 31/API # 30-015-34000

April 21, 2005

Dear Mr. Randolph and Mr. Arline,

In regards to the above captioned well, please provide the actual BHL that the well bore penetrated.

Also we need the penetration point where the the well bore topped the Glorieta-Yeso formation.

The calculations indicated on your NMOCD form C-104 do not reflect what the actual BHL should be.

I am somewhat confused with the entire application to drill as the completion report indicates that the top of the production interval

is the same as the surface.

This would make said well un-orthodox in respect with section 24 and the entire producing interval would then include more than 40 acres

as indicated on your application?

Also please indicate the actual WOC time for each string of casing, the casing pressure tests and actual time to test each string of casing.

Please call me if you have any quuestions. I have included the NMOCD rules so that you may refer to them for more information.

Respectfully yours,

Bryan G. Arrant
PES
505-748-1283 ext.103

19.15.3.107 CASING AND TUBING REQUIREMENTS:

A. Any well drilled for oil or natural gas shall be equipped with such surface and intermediate casing strings and cement as may be necessary to effectively seal off and isolate all water-, oil-, and gas-bearing strata and other strata encountered in the well down to the casing point. In addition thereto, any well completed for the production of oil or natural gas shall be equipped with a string of properly cemented production casing at sufficient depth to ensure protection of oil- and gas-bearing strata encountered in the well, including the one(s) to be produced.

B. Sufficient cement shall be used on surface casing to fill the annular space behind the casing to the top of the hole, provided however, that authorized field personnel of the division may, at their discretion, allow exceptions to the foregoing requirement when known conditions in a given area render compliance impracticable.

C. All cementing shall be by pump and plug method unless some other method is expressly authorized by the division.

D. All cementing shall be with conventional-type hard-setting cements to which such additives (lighteners, densifiers, extenders, accelerators, retarders, etc.) have been added to suit conditions in the well.

E. Authorized field personnel of the division may, when conditions warrant, allow exceptions to the above paragraph and permit the use of oil-base casing packing material in lieu of hard-setting cements on intermediate and production casing strings; provided however, that when such materials are used on the intermediate casing string, conventional-type hard-setting cements shall be placed throughout all oil- and gas-bearing zones and throughout at least the lowermost 300 feet of the intermediate casing string. When such materials are used on the production casing string, conventional-type hard-setting cements shall be placed throughout all oil- and gas-bearing zones and shall extend upward a minimum of 500 feet above the uppermost perforation or, in the case of an open-hole completion, 500 feet above the production casing shoe.

F. All casing strings shall be tested and proved satisfactory as provided in Subsection I. below.

G. After cementing, but before commencing tests required in Subsection I. below, all casing strings shall stand cemented in accordance with Option 1 or 2 below. Regardless of which option is taken, the casing shall remain stationary and under pressure for at least eight hours after the cement has been placed. Casing shall be "under pressure" if some acceptable means of holding pressure is used or if one or more float valves are employed to hold the cement in place.

(1) Option 1 Allow all casing strings to stand cemented a minimum of eighteen (18) hours prior to commencing tests. Operators using this option shall report on Form C-103 the actual time the cement was in place before initiating tests.

(2) Option 2 (May be used in the counties of San Juan, Rio Arriba, McKinley, Sandoval, Lea, Eddy, Chaves, and Roosevelt only.) Allow all casing strings to stand cemented until the cement has reached a compressive strength of at least 500 pounds per square inch in the "zone of interest" before commencing tests, provided however, that no tests shall be commenced until the cement has been in place for at least eight (8) hours.

(a) The "zone of interest" for surface and intermediate casing strings shall be the bottom 20 percent of the casing string, but shall be no more than 1000 feet nor less than 300 feet of the bottom-part of the casing unless the casing is set at less than 300 feet. The "zone of interest" for production casing strings shall include the interval or intervals where immediate completion is contemplated.

(b) To determine that a minimum compressive strength of 500 pounds per square inch has been attained, operators shall use the typical performance data for the particular cement mix used in the well, at the minimum temperature indicated for the zone of interest by Figure 107-A, Temperature Gradient Curves. Typical performance data used shall be that data furnished by the cement manufacturer or by a competent materials testing agency, as determined in accordance with the latest edition of API Code RP 10 B "Recommended Practice for Testing Oil-Well Cements."

(See Temperature Gradient - Page 17A)

H. Operators using the compressive strength criterion (Option 2) shall report the following information on Form C-103:

(1) Volume of cement slurry (cubic feet) and brand name of cement and additives, percent additives used, and sequence of placement if more than one type cement slurry is used.

(2) Approximate temperature of cement slurry when mixed.

(3) Estimated minimum formation temperature in zone of interest.

(4) Estimate of cement strength at time of casing test.

(5) Actual time cement in place prior to starting test.

I. All casing strings except conductor pipe shall be tested after cementing and before commencing any other operations on the well. Form C-103 shall be filed for each casing string reporting the grade and weight of pipe used. In the case of combination strings utilizing pipe of varied grades or weights, the footage of each grade and weight used shall be reported. The results of the casing test, including actual pressure held on pipe and the pressure drop observed shall also be reported on the same Form C-103.

(1) Casing strings in wells drilled with rotary tools shall be pressure tested. Minimum casing test pressure shall be approximately one-third of the manufacturer's rated internal yield pressure except that the test pressure shall not be less than 600 pounds per square inch and need not be greater than 1500 pounds per square inch. In cases where combination strings are involved, the above test pressure shall apply to the lowest pressure rated casing used. Test pressures shall be applied for a period of 30 minutes. If a drop of more than 10 percent of the test pressure should occur, the casing shall be considered defective and corrective measures shall be applied.

19.15.3.111 DEVIATION TESTS AND DIRECTIONAL WELLS:

(2) Deviated Well - any wellbore which is intentionally deviated from vertical but not with an

(3) Directional Well - a wellbore which is intentionally deviated from vertical with an intentional azimuth. Any directional well is subject to Section 111, Subsection C of 19.15.3 NMAC.

(4) Kick-off Point - the point at which the wellbore is intentionally deviated from vertical.

(5) Lateral - any portion of a wellbore past the point where the wellbore has been intentionally departed from the vertical.

(6) Penetration Point - the point where the wellbore penetrates the top of the pool from which it is intended to produce.

(7) Producing Area - the area that lies within a window formed by plotting the measured distance from the North, South, East and West boundaries of a project area, inside of which a vertical wellbore can be drilled and produced in conformity with the setback requirements from the outer boundary of a standard spacing unit for the applicable pool(s).

(8) Producing Interval - that portion of the wellbore drilled inside the vertical limits of a pool, between its penetration point and its terminus.

(9) Project Area - an area designated on Form C-102 that is enclosed by the outer boundaries of a spacing unit, a combination of complete spacing units, or an approved secondary, secondary, tertiary or pressure maintenance project.

(10) Project Well - any well drilled, completed, produced or injected into as either a vertical well, deviated

well or directional well.

(11) Spacing Unit - the acreage that is dedicated to a well in accordance with Rule 104. Included in this definition is a "unit of proration for oil or gas" as defined by the division and all non-standard such units previously approved by the division.

(12) Terminus - the farthest point attained along the wellbore.

(13) Unorthodox - any part of the producing interval which is located outside of the producing area.

(14) Vertical Well - a well that does not have an intentional departure or course deviation from the vertical.

(15) Wellbore - the interior surface of a cased or open hole through which drilling, production, or injection operations are conducted.

B. Deviated Wellbores

(1) Deviation Tests Required. Any vertical or deviated well which is drilled or deepened shall be tested at reasonably frequent intervals to determine the deviation from the vertical. Such tests shall be made at least once each 500 feet or at the first bit change succeeding 500 feet. A tabulation of all deviation tests run, sworn to and notarized, shall be filed with Form C-104, Request for Allowable and Authorization to Transport Oil and Natural Gas.

(2) Excessive Deviation. When the deviation averages more than five degrees in any 500-foot interval, the operator shall include the calculations of the maximum possible horizontal displacement of the hole. When the maximum possible horizontal displacement exceeds the distance to the nearest outer boundary line of the appropriate unit, the operator shall run a directional survey to establish the location of the producing interval(s).

(3) Unorthodox Locations. If the results of the directional survey indicate that the producing interval is more than 50 feet from the approved surface location and closer than the minimum setback requirements to the outer boundaries of the applicable unit, then the well shall be considered unorthodox. To obtain authority to produce such well, the operator shall file an application with the Division director, copy to the appropriate division district office, and shall otherwise follow the normal process outlined in Section 104, Subsection F, Paragraph (3) of 19.15.3 NMAC to obtain approval of the unorthodox location.

(4) Directional Survey Requirements. Upon request from the Division director, any vertical or deviated well shall be directionally surveyed. The appropriate division district office shall be notified of the approximate time any directional surveys are to be conducted. All directional surveys run on any well in any manner for any reason must be filed with the division upon completion of the well. The division shall not assign an allowable to the well until all such directional surveys have been filed.

C. Directional Wellbores

(1) Directional Drilling Within a Project Area. A permit to directionally drill a wellbore may be granted by the appropriate division district office if the producing interval is entirely within the producing area or at an unorthodox location previously approved by the division. Additionally, if the project area consists of a combination of drilling units and includes any State or Federal acreage, a copy of the OCD Form C-102 shall be sent to the State Land Office or the Bureau of Land Management.

(2) Unorthodox Wellbores. If all or part of the producing interval of any directional wellbore is projected to be outside of the producing area, the wellbore shall be considered unorthodox. To obtain approval for such wellbore, the applicant shall file a written application in duplicate with the Division director, copy to the appropriate division district office, and shall otherwise follow the normal process outlined in Section 104, Subsection F, Paragraph (3) of 19.15.3 NMAC.

(3) Allowables for Project Areas With Multiple Proration Units. The maximum allowable assigned to the project area within a prorated pool shall be based upon the number of standard spacing units (or approved non-standard spacing units) that are developed or traversed by the producing interval of the directional wellbore or wellbores. Such maximum allowable shall be applicable to all production from the project area, including any vertical wellbores on standard spacing units inside the project area.

(4) Directional Surveys Required. A directional survey shall be required on each well drilled under the provisions of this section. The appropriate division district office shall be notified of the approximate time all directional surveys are to be conducted. All directional surveys run on any well in any manner for any reason must be filed with the division upon completion of the well. The division shall not assign an allowable to the well until all such directional surveys have been filed. If the directional survey indicates that any part of the producing interval is outside of the producing area, or, in the case of an approved unorthodox location, less than the approved setback requirements from the outer boundary of the applicable unit, then the operator shall file an application with the Division director, copy to the appropriate division district office, and shall otherwise follow the normal process outlined in Section 104, Subsection F, Paragraph (3) of 19.15.3 NMAC to obtain approval of the unorthodox location.

CCCC

April 21, 2005

New Mexico Oil Conservation Division
1301 Grand Avenue
Artesia, New Mexico 88210
Attn: Mr. Byran Arrant

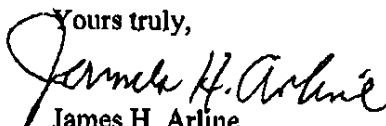
Re: Jackson A #31 Eddy County, New Mexico
Unit B, 1220' FNL, 2310' FEL -Sec 24, T17S, R30E- SURFACE
Unit J, 1240' FSL, 2310' FEL -SEC 13, T17S, R30E- BOTTOM HOLE

Dear Mr. Arrant:

Per our conversation with Mr. Tim W. Gum @ 4:10 PM Texas time on 4/20/2005. Mr. Gum has agreed to allow Burnett Oil Co., Inc. to continue to produce this determined NSL referenced well into separate tanks at the Jackson A battery. It is understood that no sales will occur until the NSL permit has been obtained from NMOCD in Santa Fe.

Please contact our Mr. Sterling Randolph or the undersigned if you require additional information.

Yours truly,


James H. Arline
Materials Coordinator

April 28, 2005

Burnett Oil Co., Inc.
Burnett Plaza – Suite 1500
801 Cherry Street – Unit #9
Fort Worth, Texas 76102-6881

Telefax No. (817) 332-7832

Attention: **James H. Arline**
Materials Coordinator

Administrative Order NSL-5201 (BHL) (SD)
(Non-Standard Subsurface Location/Producing Area)

Dear Mr. Arline:

Reference is made to the following: (i) your initial application submitted by telefax to the New Mexico Oil Conservation Division ("Division") in Santa Fe, New Mexico on April 21, 2005 (***administrative application reference No. pMES0-511651795***); (ii) yours and Mr. Sterling Randolph's telephone conversations with Mr. Michael E. Stogner, Engineer with the Division in Santa Fe, on April 22, 26, and 27, 2005; (iii) the supplemental data submitted by telefax on April 27, 2005 containing the necessary information to complete your application; and (iv) the Division's records in Artesia and Santa Fe: all concerning Burnett Oil Co., Inc.'s ("Burnett") recent development within the Cedar Lake-Yeso Pool (**96831**) on its Jackson "A" Lease (***U. S. Government lease No. LC-0229339-A***), comprising the E/2 of Section 13 and the N/2 NE/4 of Section 24, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico, utilizing horizontal drainhole techniques.

The Division Director Finds That:

- (1) The subject application has been duly filed under the provisions of Division Rules 104.F, 111.A (13), and 111.C (2);
- (2) By Order No. R-11067, issued in Case No. 12058 on October 20, 1998 and made effective on November 1, 1998, the Division created and defined the Cedar Lake-Yeso Pool for the production of oil from the Yeso formation; the horizontal limits for this pool, as currently designated, comprises the following described lands in Eddy County, New Mexico:

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM

Section 13:	NE/4 and S/2
Section 24:	NE/4

TOWNSHIP 17 SOUTH, RANGE 31 EAST, NMPM

Section 17:	S/2
Section 18:	All
Section 19:	N/2
Section 20:	All;

- (3) Currently, the Cedar Lake-Yeso Pool is subject to the statewide rules and regulations, as promulgated by Rule 104.B (1), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of a single 40-acre oil spacing and proration unit;
- (4) It is the Division's understanding that Burnett recently drilled its Jackson "A" Well No. 31 (API No. 30-015-34000), from a surface location 1220 feet from the North line and 2310 feet from the East line (Unit B) of Section 24, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico, vertically to an approximate measured depth of 4,433 feet; kicked-off to the north and, at a measured depth of approximately 5,110 feet a 90 degree deviation off of vertical was achieved; the well was drilled horizontally an approximate distance of 1950 feet to a bottomhole location, or end-point, within the Yeso formation at a subsurface location approximately 1240 feet from the South line and 2135 feet from the East line (Unit O) of Section 13, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico;
- (5) Burnett's resulting 80-acre "Project Area", pursuant to Division Rules 111.A (9) and C (3), is established by combining the two standard 40-acre oil spacing and proration units in the Yeso formation comprising the SW/4 SE/4 (Unit O) of Section 13 and the NW/4 NE/4 (Unit B) of Section 24, both in Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico;
- (6) The surface location, subsurface end-point, and possibly the subsurface entry point into the Cedar Lake-Yeso Pool, of the Jackson "A" Well No. 31 are unorthodox pursuant to Division Rules 104.B (1);
- (7) Prior to the completion of the Jackson "A" Well No. 31, Burnett was developing the Cedar Lake-Yeso Pool within the subject 80-acre project area with its Jackson "A" Well No. 23 (API No. 30-015-32114), located at a standard oil well location 500 feet from the North line and 1650 feet from the East line (Unit B) of Section 24;
- (8) Division records indicate Burnett's Jackson "A" Well No. 19 (API No. 30-015-31669), located at a standard oil well location 330 feet from the South line and 1650 feet from the East line (Unit O) of Section 13, is currently shut-in and its last reported production from the Cedar Lake-Yeso Pool was February, 2003; and
- (9) It appearing the applicant has satisfied all of the appropriate requirements prescribed in Rules 111.C (2) and 104.F, the subject application should be approved, further, the aforementioned horizontal drainhole and 80-acre project area should continue operating under the provisions contained within this order and all other applicable provisions of Division Rule 111.

It Is Therefore Ordered That:

(1) Burnett Oil Co., Inc. ("Burnett") is hereby authorized to continue operating its horizontal/high angle directional drilling project area ("Project Area") within the 80 acres comprising the SW/4 SE/4 (Unit O) of Section 13 and the NW/4 NE/4 (Unit B) of Section 24, both in Township 17 South, Range 30 East, NMPM, Cedar Lake-Yeso Pool (96831), Eddy County, New Mexico, in which the two above-described Jackson "A" Wells No. 23 and 31 are herein dedicated.

(2) Further, by the authority granted me under the provisions of Division Rule 104.F (2), the above-described non-standard Yeso subsurface oil well location(s) of the well bore path of Burnett's recent horizontally drilled Jackson "A" Well No. 31 is hereby approved.

(3) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MARK E. FESMIORE, P. E.
Director

MEF/ms

cc: New Mexico Oil Conservation Division – Artesia
U. S. Bureau of Land Management – Carlsbad

Company: Burnett Oil Company, Inc.	Date: 3/1/2005	Time: 10:01:01	Page: 1
Field: Cedar Lake Yeso Field	Co-ordinate(NE) Reference:	Well: Jackson A-31H, Grid North	
Site: Jackson A-31	Vertical (TVD) Reference:	System: Mean Sea Level	
Well: Jackson A-31H	Section (VS) Reference:	User: (0.00N,0.00E,360.00Az)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	DB: Sybase

Field: Cedar Lake Yeso Field

Eddy, New Mexico

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone:

New Mexico, Eastern Zone

Coordinate System:

Well Centre

Geomagnetic Model:

igrf2005

Site: Jackson A-31
Sec 24, T17S, R30E

Site Position:	Northing:	663636.70 ft	Latitude:	32 49 25.516 N
From: Map	Easting:	625798.40 ft	Longitude:	103 55 25.764 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	0.00 ft		Grid Convergence:	0.22 deg

Well: Jackson A-31H	Slot Name:
2310 FEL., 1320 FNL, Sec 24, T17S, R30E	
Well Position: +N-S 0.00 ft	Northing: 663636.70 ft
+E-W 0.00 ft	Easting: 625798.40 ft
Position Uncertainty: 0.00 ft	
	Latitude: 32 49 25.516 N
	Longitude: 103 55 25.764 W

Wellpath: 1	Drilled From:	Surface
	Tie-on Depth:	0.00 ft
Current Datum: Mean Sea Level	Above System Datum:	Mean Sea Level
Magnetic Data: 2/15/2005	Declination:	8.54 deg
Field Strength: 49612 nT	Mag Dip Angle:	60.84 deg
Vertical Section: Depth From (TVD)	+N-S	Direction
ft	ft	deg
0.00	0.00	360.00

Survey: Final Surveys

Start Date: 3/1/2005

Company: Weatherford International, Inc

Engineer: Ybes Ortiz
Tied-to: User Defined

Survey: Final Surveys

MD	Incl	Azin	TVD	+N-S	+E-W	Map	Map	Latitude	Longitude
ft	deg	deg	ft	ft	ft	Northing	Easting	Deg Min Sec	Deg Min Sec
4375.00	2.28	30.48	4373.70	81.20	-7.90	663717.90	625790.50	32 49 26.320 N	103 55 25.853 W
4390.00	2.40	34.70	4388.69	81.72	-7.57	663718.42	625790.83	32 49 26.325 N	103 55 25.849 W
4432.00	2.30	27.90	4430.65	83.18	-6.67	663719.88	625791.73	32 49 26.340 N	103 55 25.838 W
4463.00	2.50	28.60	4461.63	84.33	-6.06	663721.03	625792.34	32 49 26.351 N	103 55 25.831 W
4494.00	2.40	27.60	4492.60	85.50	-5.44	663722.20	625792.96	32 49 26.363 N	103 55 25.823 W
4549.00	2.10	35.60	4547.55	87.34	-4.32	663724.04	625794.08	32 49 26.381 N	103 55 25.810 W
4580.00	6.20	29.60	4578.47	89.25	-3.16	663725.95	625795.24	32 49 26.400 N	103 55 25.797 W
4610.00	10.60	31.60	4608.14	93.01	-0.91	663729.71	625797.49	32 49 26.437 N	103 55 25.770 W
4640.00	14.90	37.70	4637.39	98.42	2.90	663735.12	625801.30	32 49 26.490 N	103 55 25.725 W
4671.00	20.30	31.10	4666.93	106.18	8.12	663742.88	625806.52	32 49 26.567 N	103 55 25.664 W
4702.00	27.00	29.50	4695.31	116.92	14.37	663753.62	625812.77	32 49 26.673 N	103 55 25.590 W
4733.00	33.00	26.60	4722.15	130.61	21.62	663767.31	625820.02	32 49 26.808 N	103 55 25.504 W
4763.00	38.50	21.10	4746.49	146.64	28.64	663783.34	625827.04	32 49 26.966 N	103 55 25.421 W
4794.00	44.40	18.70	4769.72	165.94	35.60	663802.64	625834.00	32 49 27.157 N	103 55 25.339 W
4825.00	50.30	15.60	4790.72	187.72	42.29	663824.42	625840.69	32 49 27.372 N	103 55 25.259 W
4855.00	55.70	12.40	4808.77	210.96	48.06	663847.66	625846.46	32 49 27.602 N	103 55 25.191 W
4886.00	61.00	8.80	4825.03	236.88	52.89	663873.58	625851.29	32 49 27.858 N	103 55 25.133 W
4917.00	66.70	5.60	4838.69	264.48	56.36	663901.18	625854.76	32 49 28.131 N	103 55 25.091 W
4947.00	72.40	3.40	4849.17	292.49	58.55	663929.19	625856.95	32 49 28.408 N	103 55 25.064 W
4978.00	78.20	1.80	4857.03	322.43	59.90	663959.13	625858.30	32 49 28.705 N	103 55 25.047 W
5015.00	83.20	358.60	4863.01	358.93	60.03	663995.63	625858.43	32 49 29.066 N	103 55 25.044 W
5045.00	85.10	357.90	4866.07	388.75	59.11	664025.45	625857.51	32 49 29.361 N	103 55 25.053 W
5076.00	86.60	358.10	4868.31	419.65	58.03	664056.35	625856.43	32 49 29.667 N	103 55 25.064 W

Company: Burnett Oil Company, Inc.	Date: 3/1/2005	Time: 10:01:01	Page: 1
Field: Cedar Lake Yeso Field	Co-ordinate(NE) Reference: Well: Jackson A-31H, Grid North		
Site: Jackson A-31	Vertical (TVD) Reference: System: Mean Sea Level		
Well: Jackson A-31H	Section (VS) Reference: User (0.00N,0.00E,360.00Az)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: Cedar Lake Yeso Field

Eddy, New Mexico
Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: Jackson A-31
 Sec 24, T17S, R30E

Site Position:	Northing: 663636.70 ft	Latitude: 32 49 25.516 N
From: Map	Easting: 625798.40 ft	Longitude: 103 55 25.764 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 0.00 ft		Grid Convergence: 0.22 deg

Well: Jackson A-31H 2310 FEL., 1320 FNL, Sec 24, T17S, R30E	Slot Name:
Well Position: +N-S 0.00 ft Northing: 663636.70 ft	Latitude: 32 49 25.516 N
+E-W 0.00 ft Easting: 625798.40 ft	Longitude: 103 55 25.764 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: Mean Sea Level	Tie-on Depth: 0.00 ft
Magnetic Data: 2/15/2005	Above System Datum: Mean Sea Level
Field Strength: 49612 nT	Declination: 8.54 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.84 deg
ft	+N-S
	ft
0.00	0.00
	0.00
	360.00
	deg

Survey: Final Surveys

Start Date: 3/1/2005

Company: Weatherford International, Inc
Tool:

Engineer: Ybes Ortiz
Tied-to: User Defined

Survey: Final Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
4375.00	2.28	30.48	4373.70	81.20	-7.90	663717.90	625790.50	32 49 26.320 N	103 55 25.853 W
4390.00	2.40	34.70	4388.69	81.72	-7.57	663718.42	625790.83	32 49 26.325 N	103 55 25.849 W
4432.00	2.30	27.90	4430.65	83.18	-6.67	663719.88	625791.73	32 49 26.340 N	103 55 25.838 W
4463.00	2.50	28.60	4461.63	84.33	-6.06	663721.03	625792.34	32 49 26.351 N	103 55 25.831 W
4494.00	2.40	27.60	4492.60	85.50	-5.44	663722.20	625792.96	32 49 26.363 N	103 55 25.823 W
4549.00	2.10	35.60	4547.55	87.34	-4.32	663724.04	625794.08	32 49 26.381 N	103 55 25.810 W
4580.00	6.20	29.60	4578.47	89.25	-3.16	663725.95	625795.24	32 49 26.400 N	103 55 25.797 W
4610.00	10.60	31.60	4608.14	93.01	-0.91	663729.71	625797.49	32 49 26.437 N	103 55 25.770 W
4640.00	14.90	37.70	4637.39	98.42	2.90	663735.12	625801.30	32 49 26.490 N	103 55 25.725 W
4671.00	20.30	31.10	4666.93	106.18	8.12	663742.88	625806.52	32 49 26.567 N	103 55 25.664 W
4702.00	27.00	29.50	4695.31	116.92	14.37	663753.62	625812.77	32 49 26.673 N	103 55 25.590 W
4733.00	33.00	26.60	4722.15	130.61	21.62	663767.31	625820.02	32 49 26.808 N	103 55 25.504 W
4763.00	38.50	21.10	4746.49	146.64	28.64	663783.34	625827.04	32 49 26.966 N	103 55 25.421 W
4794.00	44.40	18.70	4769.72	165.94	35.60	663802.64	625834.00	32 49 27.157 N	103 55 25.339 W
4825.00	50.30	15.60	4790.72	187.72	42.29	663824.42	625840.69	32 49 27.372 N	103 55 25.259 W
4855.00	55.70	12.40	4808.77	210.96	48.06	663847.66	625846.46	32 49 27.602 N	103 55 25.191 W
4886.00	61.00	8.80	4825.03	236.88	52.89	663873.58	625851.29	32 49 27.858 N	103 55 25.133 W
4917.00	66.70	5.60	4838.69	264.48	56.36	663901.18	625854.76	32 49 28.131 N	103 55 25.091 W
4947.00	72.40	3.40	4849.17	292.49	58.55	663929.19	625856.95	32 49 28.408 N	103 55 25.064 W
4978.00	78.20	1.80	4857.03	322.43	59.90	663959.13	625858.30	32 49 28.705 N	103 55 25.047 W
5015.00	83.20	358.60	4863.01	358.93	60.03	663995.63	625858.43	32 49 29.066 N	103 55 25.044 W
5045.00	85.10	357.90	4866.07	388.75	59.11	664025.45	625857.51	32 49 29.361 N	103 55 25.053 W
5076.00	86.60	358.10	4868.31	419.65	58.03	664056.35	625856.43	32 49 29.667 N	103 55 25.064 W

Company: Burnett Oil Company, Inc.
Field: Cedar Lake Yesso Field
Site: Jackson A-31H
Well: Jackson A-31H
Wellpath: 1

Date: 3/1/2005 Time: 10:01:01 Page: 2
Co-ordinate(NE) Reference: Well: Jackson A-31H Grid North
Vertical (TVD) Reference: System: Mean Sea Level
Section (VS) Reference: User (0.00N 0.00E 360.00Az)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Final Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg. Min. Sec.	Longitude Deg. Min. Sec.
5107.00	88.20	358.60	4869.72	450.61	57.14	664087.31	625855.54	32 49 29.973 N	103 55 25.074 W
5138.00	89.20	359.70	4870.42	481.59	56.68	664118.29	625855.08	32 49 30.280 N	103 55 25.077 W
5168.00	90.20	0.20	4870.58	511.59	56.66	664148.29	625855.06	32 49 30.577 N	103 55 25.076 W
5200.00	90.10	0.40	4870.50	543.59	56.82	664180.29	625855.22	32 49 30.893 N	103 55 25.073 W
5231.00	89.90	0.20	4870.50	574.59	56.99	664211.29	625855.39	32 49 31.200 N	103 55 25.070 W
5262.00	90.70	0.90	4870.33	605.59	57.28	664242.29	625855.68	32 49 31.507 N	103 55 25.065 W
5292.00	91.50	1.20	4869.76	635.58	57.83	664272.28	625856.23	32 49 31.803 N	103 55 25.057 W
5323.00	91.40	1.30	4868.97	666.56	58.51	664303.26	625856.91	32 49 32.110 N	103 55 25.048 W
5354.00	91.40	1.20	4868.22	697.55	59.19	664334.25	625857.59	32 49 32.416 N	103 55 25.038 W
5384.00	91.30	1.10	4867.51	727.53	59.79	664364.23	625858.19	32 49 32.713 N	103 55 25.030 W
5456.00	91.90	2.00	4865.50	799.48	61.73	664436.18	625860.13	32 49 33.425 N	103 55 25.004 W
5477.00	91.80	1.90	4864.82	820.45	62.45	664457.15	625860.85	32 49 33.633 N	103 55 24.995 W
5508.00	91.50	1.50	4863.93	851.43	63.37	664488.13	625861.77	32 49 33.939 N	103 55 24.982 W
5540.00	91.30	1.80	4863.15	883.40	64.29	664520.10	625862.69	32 49 34.255 N	103 55 24.970 W
5570.00	91.10	1.70	4862.52	913.38	65.21	664550.08	625863.61	32 49 34.552 N	103 55 24.958 W
5601.00	90.90	1.60	4861.98	944.36	66.10	664581.06	625864.50	32 49 34.859 N	103 55 24.946 W
5631.00	90.80	1.70	4861.53	974.35	66.96	664611.05	625865.36	32 49 35.155 N	103 55 24.935 W
5693.00	91.00	1.80	4860.56	1036.31	68.85	664673.01	625867.25	32 49 35.768 N	103 55 24.910 W
5723.00	91.00	1.60	4860.04	1066.29	69.74	664702.99	625868.14	32 49 36.065 N	103 55 24.898 W
5754.00	91.40	2.00	4859.39	1097.27	70.72	664733.97	625869.12	32 49 36.371 N	103 55 24.885 W
5786.00	91.90	3.00	4858.47	1129.23	72.11	664765.93	625870.51	32 49 36.688 N	103 55 24.867 W
5817.00	91.80	2.90	4857.46	1160.17	73.71	664796.87	625872.11	32 49 36.994 N	103 55 24.847 W
5848.00	92.00	3.50	4856.44	1191.11	75.44	664827.81	625873.84	32 49 37.300 N	103 55 24.825 W
5879.00	92.30	4.00	4855.27	1222.02	77.46	664858.72	625875.86	32 49 37.606 N	103 55 24.800 W
5909.00	92.20	4.10	4854.10	1251.92	79.58	664888.62	625877.98	32 49 37.901 N	103 55 24.774 W
5940.00	92.00	4.00	4852.96	1282.82	81.77	664919.52	625880.17	32 49 38.207 N	103 55 24.747 W
5971.00	92.00	4.10	4851.88	1313.72	83.96	664950.42	625882.36	32 49 38.513 N	103 55 24.720 W
6002.00	91.80	3.90	4850.85	1344.63	86.12	664981.33	625884.52	32 49 38.818 N	103 55 24.693 W
6032.00	91.50	3.90	4849.99	1374.55	88.16	665011.25	625886.56	32 49 39.114 N	103 55 24.668 W
6063.00	91.40	3.80	4849.20	1405.47	90.24	665042.17	625888.64	32 49 39.420 N	103 55 24.642 W
6093.00	91.10	4.00	4848.55	1435.39	92.28	665072.09	625890.68	32 49 39.716 N	103 55 24.617 W
6124.00	90.80	4.20	4848.03	1466.31	94.49	665103.01	625892.89	32 49 40.022 N	103 55 24.590 W
6155.00	91.70	4.20	4847.36	1497.22	96.76	665133.92	625895.16	32 49 40.328 N	103 55 24.562 W
6186.00	92.30	4.80	4846.28	1528.10	99.19	665164.80	625897.59	32 49 40.633 N	103 55 24.532 W
6217.00	92.20	4.60	4845.06	1558.98	101.73	665195.68	625900.13	32 49 40.939 N	103 55 24.501 W
6248.00	91.90	4.60	4843.95	1589.86	104.22	665226.56	625902.62	32 49 41.244 N	103 55 24.470 W
6309.00	92.00	4.70	4841.87	1650.62	109.16	665287.32	625907.56	32 49 41.845 N	103 55 24.409 W
6340.00	91.80	4.60	4840.85	1681.50	111.67	665318.20	625910.07	32 49 42.151 N	103 55 24.379 W
6371.00	91.70	4.60	4839.90	1712.39	114.16	665349.09	625912.56	32 49 42.456 N	103 55 24.348 W
6402.00	91.60	4.70	4839.01	1743.27	116.67	665379.97	625915.07	32 49 42.762 N	103 55 24.317 W
6433.00	91.50	4.70	4838.17	1774.16	119.21	665410.86	625917.61	32 49 43.067 N	103 55 24.286 W
6464.00	91.40	4.80	4837.38	1805.04	121.77	665441.74	625920.17	32 49 43.373 N	103 55 24.255 W
6494.00	91.30	4.70	4836.68	1834.93	124.26	665471.63	625922.66	32 49 43.669 N	103 55 24.224 W
6525.00	91.10	4.60	4836.03	1865.82	126.77	665502.52	625925.17	32 49 43.974 N	103 55 24.193 W
6556.00	90.80	4.40	4835.51	1896.72	129.20	665533.42	625927.60	32 49 44.280 N	103 55 24.163 W
6588.00	90.40	4.50	4835.18	1928.62	131.68	665565.32	625930.08	32 49 44.595 N	103 55 24.133 W
6619.00	90.40	4.50	4834.96	1959.53	134.12	665596.23	625932.52	32 49 44.901 N	103 55 24.103 W
6649.00	90.30	4.60	4834.78	1989.43	136.50	665626.13	625934.90	32 49 45.197 N	103 55 24.074 W
6680.00	90.40	4.60	4834.59	2020.33	138.98	665657.03	625937.38	32 49 45.503 N	103 55 24.043 W
6711.00	90.30	4.70	4834.40	2051.23	141.50	665687.93	625939.90	32 49 45.808 N	103 55 24.012 W
6742.00	90.20	4.80	4834.26	2082.12	144.06	665718.82	625942.46	32 49 46.114 N	103 55 23.981 W
6773.00	90.00	4.90	4834.21	2113.01	146.68	665749.71	625945.08	32 49 46.419 N	103 55 23.949 W

Company: Burnett Oil Company, Inc.
 Field: Cedar Lake Yaso Field
 Site: Jackson A-31
 Well: Jackson A-31H
 Wellpath: 1

Date: 3/1/2005 Time: 10:01:01 Page: 3
 Co-ordinate(NB) Reference: Well: Jackson A-31H, Gnd North
 Vertical (TVD) Reference: System: Mean Sea Level
 Section (VS) Reference: User: (0.00N,0.00E,360.00Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Final Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
6804.00	89.80	4.70	4834.26	2143.90	149.28	665780.60	625947.68	32 49 46.725 N	103 55 23.917 W
6834.00	89.60	4.60	4834.42	2173.80	151.71	665810.50	625950.11	32 49 47.021 N	103 55 23.887 W
6865.00	89.50	4.60	4834.67	2204.70	154.20	665841.40	625952.60	32 49 47.326 N	103 55 23.856 W
6896.00	89.30	4.60	4834.99	2235.60	156.68	665872.30	625955.08	32 49 47.632 N	103 55 23.826 W
6928.00	89.20	4.70	4835.41	2267.49	159.28	665904.19	625957.68	32 49 47.948 N	103 55 23.794 W
6959.00	89.10	4.70	4835.87	2298.38	161.82	665935.08	625960.22	32 49 48.253 N	103 55 23.763 W
6989.00	89.00	4.60	4836.37	2328.28	164.25	665964.98	625962.65	32 49 48.549 N	103 55 23.733 W
7020.00	88.90	4.60	4836.93	2359.18	166.73	665995.88	625965.13	32 49 48.854 N	103 55 23.702 W
7051.00	88.70	4.70	4837.58	2390.07	169.25	666026.77	625967.65	32 49 49.160 N	103 55 23.672 W
7071.00	88.70	4.50	4838.04	2410.00	170.85	666046.70	625969.25	32 49 49.357 N	103 55 23.652 W
7120.00	88.70	4.50	4839.15	2458.83	174.69	666095.53	625973.09	32 49 49.840 N	103 55 23.605 W



DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 • Artesia, NM 88211-0160 • Office (505) 748-8704 • Fax (505) 748-8719

February 28, 2005

Burnett Oil Co, Inc
801 Cherry Street Unit #9
Fort Worth, TX 76102-6881

Re: Jackson "A" #31 H
Sec. 24, T-17-S, R-30-E
Eddy County, New Mexico

The following is a Deviation Survey on the referenced well:

420' - 1°	4733' - 33.0°	5262' - 90.7°	5796' - 91.9°	6309' - 92.0°	6834' - 89.6°
901' - 2°	4763' - 38.5°	5303' - 91.5°	5827' - 91.8°	6340' - 91.8°	6865' - 89.5°
1148' - 3/4°	4794' - 44.4°	5333' - 91.4°	5858' - 92.0°	6371' - 91.7°	6896' - 89.3°
1640' - 1 1/4°	4825' - 50.3°	5363' - 91.4°	5888' - 92.3°	6412' - 91.6°	6927' - 89.2°
2133' - 1 3/4°	4886' - 61.0°	5394' - 91.3°	5915' - 92.2°	6443' - 91.5°	6958' - 89.1°
2627' - 2°	4895' - 55.7°	5425' - 91.3°	5950' - 92.0°	6474' - 91.4°	6988' - 89.0°
3120' - 2 1/4°	4917' - 67.2°	5456' - 91.9°	5981' - 92.0°	6504' - 91.3°	7019' - 88.9°
3372' - 2 1/4°	4947' - 72.4°	5487' - 91.8°	6012' - 91.8°	6535' - 91.1°	7050' - 88.7°
3864' - 2 1/4°	4978' - 78.2°	5518' - 91.5°	6042' - 91.5°	6566' - 90.8°	7071' - 88.7°
4518' - 2.5°	5015' - 83.2°	5550' - 91.3°	6073' - 91.4°	6598' - 90.4°	
4530' - 2.7°	5045' - 85.1°	5580' - 91.1°	6103' - 91.1°	6629' - 90.4°	
4549' - 2.1°	5076' - 86.6°	5611' - 90.9°	6124' - 90.8°	6659' - 90.3°	
4580' - 6.2°	5106' - 88.2°	5642' - 90.8°	6155' - 91.7°	6690' - 90.4°	
4610' - 10.8°	5148' - 89.1°	5663' - 90.6°	6186' - 92.3°	6721' - 90.3°	
4640' - 14.9°	5178' - 90.2°	5693' - 91.0°	6217' - 92.2°	6752' - 90.2°	
4643' - 10.6°	5210' - 90.1°	5724' - 91.0°	6248' - 92.1°	6773' - 90.0°	
4702' - 27.0°	5241' - 89.9°	5754' - 91.4°	6278' - 91.9°	6804' - 89.8°	
4671' - 20.3°					

Sincerely,


Jerry W. Wilbanks
President

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing was acknowledged before me this 28th day of February, 2005 by Jerry W. Wilbanks.

MY COMMISSION EXPIRES

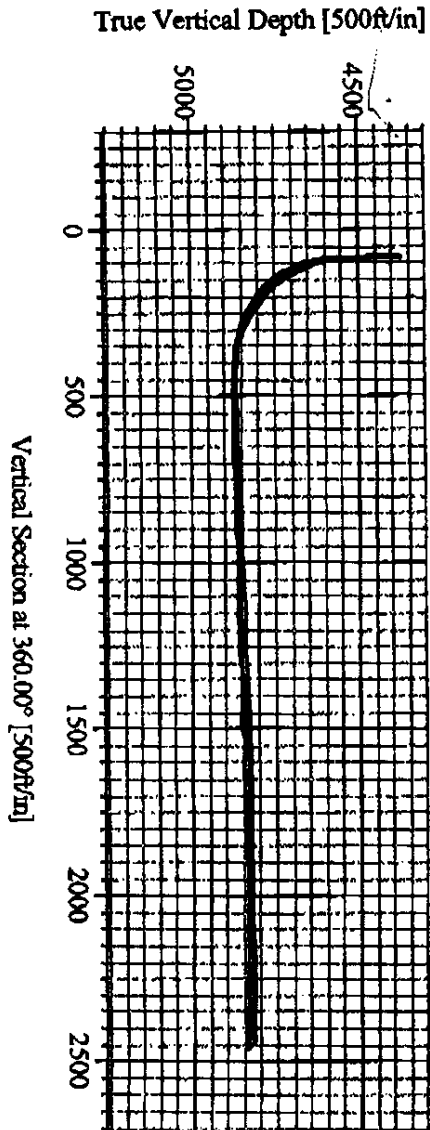
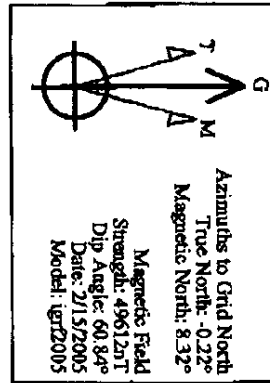
June 19th, 2007


NOTARY PUBLIC



BURNETT OIL CO., INC.
JACKSON A-31
EDDY COUNTY, NM
Final Actual vs. Plan

BRYAN A.
FM. JIM D.
BOTTOM IS
ACTUAL



South(-)/North(+) [500ft/in]

