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Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Synergy Operating, LLC (agent for Bois d' Arc Offshore, Ltd.)

3. Address and Telephone No.

PO Box 5513 (505) 325-5449 OGRID # 163458
Farmington, NM 87499

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

Unit Letter A, 250' FNL, 920' FEL, Sec 15, T20N-R05W
BH-Location
151' FNL, 736' FEL, Unit A, Section 15, T20N, R05W - McKinley County, New Mexico

5. Lease Designation and Serial No.

NMNM-99720

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Bois d' Arc Encino 15 # 1

9. API Well No.

30-031-21008

10. Field and Pool, or Exploratory

WC20N05W15A
Undesignated Dakota

11. County or Parish, State

McKinley, New Mexico

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

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☒ Casing Repair
☒ Altering Casing
☐ Other
☒ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well
Completion or recompletion Report and Log Form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including, estimated date of starting work.

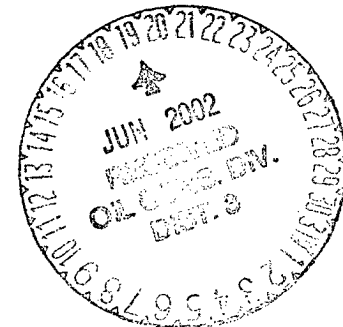
If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones of pertinent to this work.

Remedial Cement was placed behind the casing per the attached information.

The Dakota Formation was perforated and production tested per the attached information.

The Dakota Formation was permanently abandoned per the attached information.

A separate sundry notice will be filed detailing the Mancos completion information.



14. I hereby certify that the foregoing is true and correct

Signed: Thomas E. Mullins

This space for federal or state office use

Approved by: _____
Conditions of approval if any

Title: Engineering Manager

Title: _____

BY _____

ENTERED
JUN 17 2002

ACCEPTED FOR RECORD
06-10-2002
JUN 17 2002
FARMINGTON FIELD OFFICE
BY _____

NMOCD

Bois d' Arc Encino 15 # 1
Wildcat Dakota Information

- 2/25/02 MIRU BJ Services Acid Truck. RU to Wellhead. Safety Meeting. PT Lines. Pickle Tubing and Casing from 5149' to Surface with 750 gallons of 10% Acetic Acid, Displace acid with Fresh Water. Total Fluid Pumped = 154 bbls.
RD BJ Services Acid Crew.
Move-In Key Energy Rig # 28. Spot Auxillary Equipment. SDFN. Could not raise Derrick due to 50+ MPH Winds.
- 2/26/02 Safety Meeting. RU Key Rig # 28. ND WH. NU BOPE. Attempt to Pull Tubing from Well. Tubing Hanger is Frozen in Wellhead. Move Auxillary Light Plant and Heater to location. RU Tarps to protect from wind and Fire up Heater. Thaw Out Wellhead in about 2-hours. Rig Crew was released upon decision to thaw out wellhead.
SDFN. Wind is blowing at a sustained 25 to 30 MPH, with Gusts to 40 MPH. Winds die down after dark.
- 2/27/02 SM. Unseat Tubing. COOH w/ 159 Jts of 2-7/8" Production Tubing from 5149'. RU Schlumberger. Perf 3 squeeze holes at 2870'. Work on Pump. BOP leaking. Wait on new BOP. NU new BOP. Breakdown holes at 2870' at 1800 psi. Establish rate at 2 BPM at 500 psi. Pump 40 bbls, monitor bradenhead. No circulation. Schlumberger perf 2nd set of 3 squeeze holes at 2500'. POOH. Drain Equipment. SDFN.
- 2/28/02 GIH & set retainer at 2828'. BD holes at 2500'. Attempt to establish circulation. Cement below retainer w/ 90 sxs cement Pull up reverse out. Place 39 sxs of cement balanced plug inside casing across upper squeeze holes. Squeeze 5.5 bbls of slurry behind casing. Bleed off. COOH w/ setting tool. Drain Equipment. Secure location.
Cement Plug should be tagged at 2440'+/-
Bureau of Land Management representatives on location to witness all work. Inspector Kevin J. Schneider.
Details below:
Test Lines and Tubing to 3500 psi. Breakdown upper squeeze holes down casing at 1650 psi. Break back to 900 psi. Slowly increase rate in attempt to open holes greater, 4 BPM at 900 psi. SD.
ISIP on upper squeeze holes is 450 psi, lower holes was 50 psi. Open retainer. Attempt to establish circulation with water at 3 BPM at 700 psi. No circulation. Pump 16 bbls water ahead, followed by 22.8 bbls (128 ft3, 90 sxs) Type III w/ 5% NaCl at 14.5 ppg. Displace cement at 1 to 2 BPM. Some increase in pressure to 860 psi at 1 BPM. Displace 15.25 bbls. ISIP 250. Hesitate an additional 0.5 bbl below retainer to 500 psi. ISIP 400. Sting out of retainer. No circulation evidenced.
COOH w/ 17 jts 2-7/8", placing tubing at 2278'.
Reverse out 43 bbls water. No cement over upper squeeze holes.
Calculate Balanced Plug for Upper squeeze. Review with BLM officials. WOC.
GIH w/ 2-7/8", placing EOT at 2535'. NU BJ Iron.
Establish rate into upper squeeze holes down casing to verify holes are open. 1.5 BPM @ 650 psi.
Spot 10 bbls (56 ft3, 39 sxs) Type III cement w/ 5% NaCl balanced plug at 2535'. Displacement 12 bbls. COOH w/ 14 jts tubing, placing EOT at 2080'. Reverse out 20 bbls, noting estimated 1 bbl of cement. Bullhead 5.5 bbls of cement at 0.6 BPM at 800 psi. Gain pressure to 1100 psi.
SD w/ 800 psi ISIP. Hold pressure 15 minutes. Bled back to 690 psi. Pump an additional 0.25 bbl of displacement to 800 psi. Hold 1 minute. Bleed off 3/4 bbl. No Flow.
COOH w/ remaining tubing & setting tool. BO setting tool.
- 3/1/02 SM. Run GR-CET. Tag cmt inside casing at 2244' (291' plug inside csg). POOH. Perf 3 sqz holes at 2216'. POOH. GIH w/ 5-1/2" cement retainer on tubing. Set retainer at 2182'. Hold 500 psi on casing. Squeeze 5.5 bbls (30.8 ft3, 21.5 sxs below retainer to 2000 psi. Sting out, Reverse clean. Pull 3 stands tubing in heavy winds and snow. Frigid conditions. Secure wellsite. Shut-down for weekend. Cold Weather and Strong Winds forecasted for Sat & Sun. Resume squeeze work Monday AM. Plan to perforate at 1225' and circulate cement to surface.
- 3/4/02 COOH w/ 2-7/8" tubing & setting tool. Schlumberger Perforate 3 squeeze holes at 1225'. POOH. Ensure BH is open for returns. BD perms & establish circulation down casing and up bradenhead valve. Good Returns. GIH w/ 5-1/2" Cement Retainer on Tubing. Set retainer at 1181'. Test tubing & hold 500 psi on casing. Mix & pump 47 bbls, 263.9 ft3, 184 sxs Cement. Circulate 11.5 bbls of cement to surface. Sting out of retainer. COOH w/ Tubing. Secure well until tomorrow.
- 3/5/02 SM. PU 4-3/4" Bit, 3-3/8" Motor, Six (6) 3-1/8" Drill Collars and GIH on 2-7/8" Tubing. Tag at 1171'. Run Pump and Note 450 psi of pressure, with very little torque, could not run more than 2K weight on bit. Bucket test pump, only running 88 gals per min. Secure location. Need larger more capable pump from town. Ideally pump rate should be between 80 and 160 gals per min. Greater pump rate necessary for more torque

BY

AFMSS

JUN 17 2002

FARMINGTON FIELD OFFICE

3/6/02 Key Energy bring new Rig pump from Farmington. RU rig pump. GIH w/ 2 joints. Drill on cement & junk. Make very little progress. Retainer appears to be drilled up. No further progress other than on retainer.

3/7/02 SM. Make up 4-3/4" magnet on sand line. Recover metal fragments and slip segments from retainer. PU Baker Opticut mill, with junk basket. GIH w/ BHA & 2-7/8" tubing. Drill 6 feet, decide to pick up power swivel and to rotate pipe slowly to improve torque during drilling operations. Drill out of 1st squeeze at 1230'. Test casing and squeeze to 1000 psi. Good test. Secure location overnight.

3/8/02 SM. GIH w/ additional 2-7/8" tubing. Tag cement at 2180'. MU Powerswivel. Drill out cement and retainer with Baker Opticut Mill to 2213'. Just short of squeeze holes. Drilling slowed down. Probable metal pieces LD 2 jts. SDFN.

3/9/02 SM.. COOH w/ 2-7/8" tubing & BHA. RIH w/ 4-3/4" magnet on sand line. Make 8 magnet runs. Recover metal pieces of retainer and slip segmets. GIH w/ 4-3/4" blade bit, motor # 1, DCs and 2-7/8" tubing. Drill out cement squeeze and test casing from 2218' to surface to 1000 psi. Good test. GIH and drill out additional cement from 2240' to 2250' (10'). LD 2 jts. Secure location overnight. Report Changed 3-16-2002.

3/10/02 SM. Tag Cement. Drill Cement from 2250' to 2318'. (68') Bottom of cement anticipated at 2535'. Drill a total of 68' of cement today. LD 2 joints, secure location.

3/11/02 SM. COOH with Drilling assembly & BHA. Change out Motor # 1 to Motor # 2. Total time on motor # 1 32 hrs. GIH w/ motor # 2 & new tricone 4-3/4" bit. Drill 98' of cement from 2318' to 2416'.

3/12/02 SM. Tag Cement. Drill Cement from 2416' to 2448'. Pump problems. Pull up. SDFN due to repairs. 32 feet of cement drilled.

3/13/02 SM. Repair Rig Pump. GIH & Tag Cement. Drill Cement from 2448' to 2560' (112'). Free to 2782'. Test Casing. Pumping into squeeze holes at 2500'. Establish rate at 0.5 bpm at 1200#. Drill from 2782' to 2828' (46') Continue to drill cement to retainer at 2828'. Total cement drilled today of 158'. Pull up. SDFN.

3/14/02 SM. GIH. Tag retainer. Drill up cement retainer at 2828'. Drill 10 additional feet of cement to 2838'. Bottom squeeze holes at 2870', 32' additional cement over holes. Circulate clean. COOH with 4-3/4" cone bit, JB, Motor, DCs & 2-7/8" tubing. Make 3 magnet runs on sand line to recover metal & slips from retainer. First 2 runs recover junk. Secure location. SDFN.

3/15/02 SM. PU PKR & GIH on 2-7/8". Set PKR at 2279'. SM. Test & hold annulus w/ 500 psi. Squeeze 50 sacks of cement below PKR into holes a 2500'. Hesitate squeeze to 1650 psi. Leave pressure on overnight. Total cement placed behind casing of 9 bbls or 50.53 ft3. Cement pumped slowly < 1 BPM in order to improve coverage behind pipe.

3/16/02 SM. Thaw frozen Tubing. Casing not frozen. Release PKR. COOH w/ PKR. PU 4-3/4" cone bit, JB, Motor, DCs, and GIH on 2-7/8" tubing. Tag Cement at 2315'. DO cement from 2315' to 2510'. Circulate Clean. Wait until tomorrow to test squeeze holes to maximize compressive strength. Secure location.

3/17/02 SM. Test Casing & all squeeze holes from surface to 2500'. 1200# good test. GIH and DO cement from 2838' to 2880'. Test Casing to 1200#. Good test. Continue in hole, tag cement at 5209'. Drill cement encounter Float Collar Rubber. Drill Float Collar & 8' of cement below collar. New PBTD per tubing of 5253'. Circulate hole clean with 4% KCl water. COOH with 2-7/8" tubing, LD DCs & Motor. Secure location for morning.

3/18/02 SM. RU Schlumberger. Run GR-CCL-CET from PBTD of 5237' to surface w/ 500 psi. RD Schlumberger GIH w/ 4-3/4" bit to 3595', Pull up to 1946'. Swab tubing & Casing down. Secure Well SDFN.

Dakota Completion

3/19/02 SM. COOH with tubing. RU Schlumberger. Dump Bail 12 gallons acetic acid at 5146'. POOH. GIH w/ 3-1/8" HSC perforating gun and perf Encinal Canyon Member of the Dakota in 8 gun runs from 5126' to 5162' (36' of interval). 96 holes. Underbalanced. Well did not blow or flow. RD Schlumberger. GIH w/ 4-3/4" mill & scraper. to remove residual cement in casing. Work casing scraper. SDFN.

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475603
JUN 17 2002

FARMINGTON FIELD OFFICE
BY

JUN 17 2002

Hole is taking fluid. Perfs are open.

3/20/02 SM. COOH with casing scraper. MU Baker string mill on 4-3/4" blade bit & GIH on 2-7/8" tubing. PU powerswivel. Mill out cement sheath in casing from 2376' to 2490' (114'). GIH and tag final cement sheath plug at 2860'. Pull up. Drain up pumps and lines. Secure location for night.

3/21/02 GIH, Finish removing cement sheath. Circulate hole clean below DV tool at 3100'. COOH. GIH with Baker PKR on 2-7/8" tubing. Set PKR above Dakota at 5087'. Breakdown Dakota with 10 bbls 4% KCl water at 1500 psi, Establish rate 2 BPM at 1200 psi. SD. ISIP 500, 5 min vac. Release PKR. Reset PKR above lower set of perforations. BD these perfs at 1200 psi. Pump 5 bbls 2% KCl water before communicating around PKR. Pull up. Reset PKR at 5087'. RU to swab. Make 6 swab runs. Pulling from SN. Tubing on Vacuum. FL constant at 3000'. Drain pumps & lines. Install Pressure gauges. SDFN.

3/22/02 SM. SITP= 100 psi. Swab well with 14 total swab runs. Recovering 130 bbls today, 200 bbls total 156 bbls over the load of 44 bbls. Tubing on a vacuum after each run. Take water sample on each of the last 3 swab runs to take in for analysis. Secure well for weekend. Install pressure gauges.

Dakota Abandonment

3/25/02 SM. Release PKR. COOH w/ PKR. GIH w/ Cement Retainer on 2-7/8". SM. Squeeze Cement and abandon Dakota Perforations with 60 sacks of cement to 480 psi. LD 1 Jt. Reverse out. Cement placed from 4761' to 5162'. COOH w/ setting tool.

Notified BLM of Dakota Abandonment on Sunday 2-24-2002. GIH w/ 5-1/2" cement Pump 5 bbls water through retainer, establish circulation. Set retainer. Place and hold 500 psi on casing. Test Tubing to 3500 psi. Establish rate below retainer with water at a rate of 2 BPM at 1200 psi. ISIP 680 psi, zero in 4 minutes. Repeat again. Same results 6 bbls of fluid ahead. Mix and pump 14.8 bbls of Type III Cement (1.39 ft3/sx, 14.5 ppg) 83.4 ft3/ 60 sacks. Displace cement with 25.35 bbls of cement, hesitate squeeze, to prevent vacccum. Sting out of retainer with 480 psi on tubing. LD 1 jt and reverse out cement with 30 bbls water. Final Abandonment of Dakota perfs from 5126' to 5162', and covering Dakota top.

Mancos Completion Information on a future sundry notice.

