

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. JIC155
2. Name of Operator ENERVEST OPERATING LLC Contact: SHELLY DOESCHER E-Mail: sdoescher@enervest.net		6. If Indian, Allottee or Tribe Name JICARILLA APACHE
3a. Address 1001 FANININ STREET SUITE 800 HOUSTON, TX 77002	3b. Phone No. (include area code) Ph: 505-320-5682	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 32 T26N R5W SENW 1810FNL 1520FWL 36.445582 N Lat, 107.386594 W Lon		8. Well Name and No. JICARILLA CONTRACT 155 29
		9. API Well No. 30-039-22531-00-C1
		10. Field and Pool or Exploratory Area BLANCO MESAVERDE OTERO
		11. County or Parish, State RIO ARriba COUNTY, NM

12. CHECK THE 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"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

09/08/2017 - 10/12/2017: Casing repair and MIT

See attached procedure and MIT Chart

OIL CONS. DIV DIST. 3

NOV 29 2017

14. I hereby certify that the foregoing is true and correct. Electronic Submission #394133 verified by the BLM Well Information System For ENERVEST OPERATING LLC, sent to the Rio Puerco Committed to AFMSS for processing by WILLIAM TAMBEKOU on 11/27/2017 (17JWS0024SE)	
Name (Printed/Typed) KYLE REED	Title PRODUCTION ENGINEER
Signature (Electronic Submission)	Date 11/06/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	WILLIAM TAMBEKOU Title PETROLEUM ENGINEER	Date 11/17/2017
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 Rio Puerco

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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JICARILLA CONTRACT 155 No. 029 (API 30-039-22531) CASING REPAIR

09/08/2017: HPJSM. MIRUSU SPOT EQUIP. TP/20/PSI. CSG/10/PSI. BLED OFF WELL NDWH/NUBOP, PULLED TBG/HANGER THEN PULLED UP 2/JNTS. SHUT WELL IN, SECURED WELL, SDFW.

09/11/2017: TAG/BOTTOM, PU RBP. RIH AND SET 40' BELOW SURFACE, GET OFF RBP POH PU/32A/PKR. RIH SET 5' ABOVE RBP TESTED TO 300/PSI. WE LOST 10/PSI. IN 12/MINS. WE COULD SEE A STEADY DRIP ON OUR TEST VALVE ON TBG. NO LEAKS ANYWHERE ELSE, DID NOT HAVE ANOTHER VALVE ON RIG, RELEASED PKR. POH LOAD CSG. SHUT BLIND RAMS AND TESTED BRADENHEAD SEALS AND WELLHEAD TO 350/PSI. WE HAD VERY SLOW LEAK OFF BUT COULD SEE CSG. VALVES LEAKING OUT OF PACKING AROUND STEMS, TRIED TO TIGHTEN AND GREASE BUT COULD NOT GET COMPLETELY STOPPED, LOST 50/PSI. IN 15/MINS. NO COMMUNICATION VISIBLE ON BRADENHEAD VALVE, CALLED OFFICE AND WE WILL GO AHEAD AND LOOK FOR CSG. LEAK, RIH RELEASE RBP, TOH TALLEY VISUAL INSPECTION ALL TBG. TAG/FILL@ 5290', TOTAL OF 57.50' RAT HOLE BELOW TBG. AND 54' RAT HOLE BELOW BOTTOM PERF. TIH W/BIT/SCRAPER TO TOP OF CHACRA PERFS AT 3751' TOH LD/SCRAPER, PU/RBP/PKR. TIH SET RBP AT 3663'. SET PKR. 3640' TESTED RBP TO 320/PSI. HELD FOR 15/MINS. LOADED CSG. AND WAS PUMPING INTO HOLE ABOVE PKR. @ 2/BPM @150 TO 200/PSI. AFTER 3 MINS. HAD RETURNS OUT BRADENHEAD VALVE. RELEASE/PKR. TOH W/10 STANDS, LEFT PKR. HANGING AND SHUT WELL IN, SDFN.

09/12/2017: POH TO 1850' LOAD/HOLE SET PKR. TEST CSG. 1850' TO 3663' 290 PSI. HELD 10 MINS. GOOD TEST, PULL 15 STDS. LOAD HOLE TEST CSG. 945' TO 3663' 300 PSI. HELD 10 MINS. GOOD TEST, PULL 10 STDS. PUMP DOWN TBG. TEST CSG. 340' TO 3663' NO TEST, RETURNS OUT BRADENHEAD PUMPING 1 1/2 BPM AT 100 PSI. STARTED HUNTING TOP OF HOLE. TOP OF HOLE AT 489'. FROM 580' TO 733' HAD A SLOW LEAK OFF, PRESSURED UP TO 300/PSI. AND IT WOULD FALL TO 0/PSI. IN 2 TO 4/MINS. CALLED OFFICE AND SET UP SQUEEZE PROCEDURE, TIH RETRIEVED RBP AND MOVED UP HOLE, SET CLOSER TO BOTTOM OF BAD CSG. SET AT 1125' PULLED 1/JNT. SET/PKR. AND TESTED RBP TO 350/PSI. TOH LD/PKR. DUMP 3/SKS. SAND ON RBP GIVE NOTICE TO ALL NECESSARY DEPARTMENTS. SHUT WELL IN, SDFN. { NOTE, RIG WILL BE SHUT DOWN UNTILL SEPTEMBER 19TH. }

09/19/2017: PU 2 3/8" TBG. EOT@ 756' . CIRC. OUT BRADEN HEAD. RU/A PLUS CEMENTERS, PUMPED 5 BBLS. FRESH AHEAD, MIX/PUMP 180 SKS CLASS B CEMENT W/1% CALCIUM 1.18/YIELD 15.6# 5.2 GALS. PER SK HAD GOOD RETURNS, CIRC. 10 SXS CEMENT OUT BRADENHEAD AND STARTED GETTING BIG CHUNKS SHALE IN RETURNS AND PRESSURE WAS STARTING TO COME UP, SHUT IN BRADENHEAD AND OPENED CSG VALVE, MIX/PUMP 60 SXS CLASS B CEMENT W/1% CALCIUM 1.18 YIELD 15.6# , CIRC. 8 SXS ,1.6/BBLS. GOOD CEMENT OUT CSG. VALVE, SD. POH, LD TBG., SHUT BLIND RAMS, RU CEMENT TRK ON CSG. STARTED DISPLACEMENT, PUMPED TOTAL OF 2 1/2 BBLS. CAUGHT PRESSURE, DID HESITATION SQUEEZE W 400 PSI. MAX PRESSURE, SQUEEZED AWAY 1 BBL. AND PRESSURE WAS NOT DROPPING ENOUGH TO DO ANYTHING AFTER 30 MINS. PUT 400 PSI. ON SQUEEZE AND SHUT WELL IN. RD CEMENTERS AND WASH UP. SECURED WELL AND SDFN.

09/20/2017: PU 4 COLLARS RIH TAGGED TOP CEMENT AT 130' STARTED DRILLING CEMENT. DRILLED DOWN TO 200'. DRILLED CEMENT FROM 130' TO 326'. SHUT WELL IN, SECURED WELL AND SDFN.

09/21/2017 : START DRILLING CEMENT AT 326', DRILLED DOWN TO 488'. CEMENT DRILLED VERY SOFT. CALLED OFFICE AND DECISION MADE TO LET CEMENT SET UNTILL MONDAY. SECURED WELL AND SDFW. SHUT DOWN UNTILL 9-25-17 TO LET CEMENT SET UP BETTER.

09/25/2017: START DRILLING CEMENT FROM 488'. DRILLED OUT TO 552', PRESSURE TEST TO 500 PSI. SLOW LEAK DUE TO PIPE RAMS LEAKING OFF. DRILLED OUT TO 585', PUT IN PIPE RAMS AND TESTED UPPER HOLE, DID 15 MIN. TEST, START 625 PSI. LOST 59 PSI. IN 15 MINS. DRILLED DOWN TO 651'. TOH AND CHECK BLADE BIT. SECURED WELL AND SDFN.

09/26/2017: START DRILLING 651', DRILLED OUT TO 825'. LOAD HOLE DO PRESSURE TEST ON SQUEEZE, SPOKE W/BRANDON POWELL AT NMCD AND GOT REQUIREMENTS FOR MIT TEST, THEN CALLED W/RESULTS AND HE THOUGHT WE WOULD BE FINE. STARTED TEST AT 1:57 PM W/566 PSI. 17 PSI. LOSS IN 30 MINS. WAITED ANOTHER 5 MINS AT 2:32 PM 547 PSI. LOST TOTAL OF 19 PSI. IN 35 MINS., USING A DIGITAL GAUGE, BLED OFF PRESSURE, PU BIT SCRAPER TIH TO 1100' TOH LD SCRAPER AND PU RETRIEVING HEAD FOR RBP AND TIH AND CLEAN SAND AND CEMENT OFF TOP RBP, MADE SURE WE COULD LATCH UP TO RBP, PULLED 1 JNT. SHUT WELL IN, SECURED WELL AND SDFN.

09/27/2017: RELEASE RBP, TIH SET RBP W/3' IN ON JNT. #123 TOP OF RBP AT 3660', 90' ABOVE TOP PERF AT 3751' GOT OFF RBP LD 1 JNT. LOAD HOLE AND CIRC. OUT ANY AIR, DID PRESSURE TEST TO 550 PSI. TOOK 26 BBLs. TO LOAD HOLE AFTER RELEASING RBP, TOH RU WL TRK. RUN CBL FROM 3669' TO SURFACE. SHOWED GOOD CEMENT FROM SURFACE SHOE TO SURFACE AND SHOWED CEMENT BEHIND PIPE, FOUND HOLES FROM 733' TO BOTTOM OF SURFACE CSG. SHOE, SOME PLACES 100% BOND. RD WL TRK AND DID A PRESSURE TEST TO SEE IF GOOD FOR MIT TEST, PRESSURED UP TO 560 PSI. DOWN TO 435 PSI. AFTER 30 MINS. NOT SURE IF RBP HOLDING, PU PKR. TIH { 1ST/TEST SET PKR. AT 3650' PUMP DOWN TBG. TEST/RBP AT 3660' TO 610 PSI. HELD FOR 20/MINS. NO PRESSURE LOSS, GOOD TEST } PRESSURED UP ON CSG. TO 560 PSI. LOST 25 PSI. IN 5 MINS. AND WAS STILL DROPPING, RELEASE PKR. POH TO 1823' LOAD HOLE {2ND TEST SET PKR 1823' PUMP DOWN TBG. TEST CSG. FROM 1823' TO 3660' NO TEST, LOST 100 PSI. IN 25 MINS. TESTED BACKSIDE 1823' TO SURFACE 566 PSI. LOST 4 PSI. IN 15 MINS. GOOD TEST FROM 1823' TO SURFACE, SQUEEZE HOLDING. } RIH {3RD TEST SET PKR AT 2731' TEST BACKSIDE FROM 2731' TO SURFACE, 556 PSI. LOST 4 PSI. IN 15 MINS. GOOD TEST FROM 2731' TO SURFACE. } RELEASE PKR. SHUT WELL IN, SECURE WELL AND SDFN.

09/29/2017: { 4TH/TEST SET PKR. AT 3150' TEST CSG. FROM 3150' TO SURFACE, NO/TEST. } STARTED TESTING COMING UP THE HOLE, LOCATED SLOW LEAK 2821' TO 2852' LOWERED PKR. DOWN 15' BUT STILL NOT BELOW HOLES, RIH A FULL JNT. AND WAS BELOW BAD CSG. PULLED UP ABOVE HOLE TO 2821' AND TESTED UPPER SQUEEZE FOR 30 MINS. STARTED TEST AT 9:45 AM W/566/PSI. AT 10:15 AM 564/PSI. WAITED ANOTHER 5/MINS 564/PSI, BLED OFF PRESSURE AND PUMPED DOWN TBG. TO EST. RATE OF BLEED OFF ON HOLE, STARTED TEST W 585 PSI. HAD 310 PSI. LOSS IN 40 MINS, RELEASED PKR. RIH TO 2852' SET PKR PUMPED DOWN TBG. TESTED CSG. FROM 2852' TO RBP 3660' TO 600 PSI. FOR 30 MINS. TEST WAS GOOD. RELEASED PKR. TOH LD PKR. NOTIFIED MAIN OFFICE AND RECIEVED PLAN TO CEMENT HOLE, {MIX/PUMP 100' BALANCED PLUG ACROSS HOLE USING UNLTRA FINE GROUT, THIS IS SAME CEMENT AS HALLIBURTONS MICRO MATREX.} SECURED WELL SDFW.

10/02/2017: TIH W/5 STANDS TAIL PIPE BELOW PKR. TIH W/EOT AT 2864' RU CEMENTERS TO TBG. MIX CEMENT ULTRA THE SAME AS HALLIBURTONS MICRO MATREX, .76/YIELD 13.5# GAL. 3.94 GLS PER SK TOTAL OF 20 SXS TOTAL OF 2.7 BBLs. SLURRY, WOULD COVER 110' INSIDE 5 1/2" 14# PIPE. NOTE, SXS ARE 40# SXS. } PUMPED 15 BBLs. FRESH AHEAD, PUMPED 2.7 BBLs. SLURRY FOLLOWED WITH 10.6 BBLs. DISPLACEMENT, HAD FULL RETURNS THROUGHOUT JOB, SD PULLED 3 STANDS AND REVERSED OUT, SAW COLORED WATER AFTER 10.5 BBLs. THEN A VERY LITTLE BIT OF THICKER CEMENT WATER, PUMPED ANOTHER 4.5 BBLs. FOR TOTAL OF 15 BBLs., HAD CLEAN RETURNS, SD, PUMP AND PULLED

ANOTHER 5 STANDS, PUMPED 1/2 BBL. , HAD RETURNS, SET PKR. AND PRESSURED UP ON CEMENT TO 620 PSI. HOLDING FOR 5 MINS. THEN DROPPED TO 490 PSI. SHUT TBG. IN. RD CEMENTERS, SECURED WELL AND SHUT EVERYTHING IN. (NOTE , WE WILL BE SHUT DOWN UNTILL MONDAY 10/9.)

10/09/2017: MIRU. OPENED TBG. RELEASE PKR. TOH PKR. TIH W/BIT COLLARS TAG CEMENT TOP AT 2790' DRILL CEMENT, CIRC. CLEAN, PRESSURE TEST ON SQUEEZE, 582 PSI. 30 MIN TEST LOST 1 PSI. WAITED 5 MINS. FINAL PRESSURE 581 PSI. GOOD TEST, TRIED TO CONTACT NMOCDBLM BUT NO ANSWER DUE TO HOLIDAY, LEFT MESSAGES TO SEE IF THEY CAN WITNESS TOMORROW. SECURED WELL, SDFN.

10/10/2017: RECEIVED CALL FROM NMOCDBLM, HEADED CREW OUT, SPOKE W/BRANDON POWELL AT NMOCDBLM AND NO INSPECTOR AVAILABLE TODAY BUT WAS GIVEN OK TO GO AHEAD W/BLM INSPECTOR TO WITNESS, HAD BRYCE HAMMOND W/JICARILLA BLM TO WITNESS TEST. USED CERTIFIED CHART RECORDER FROM ANTELOPE SERVICES, SERIAL NUMBER 607051 CALIBRATED ON 9-9-17, STARTED TEST AT 10:15 AM W/557 PSI. END TEST 10:55 AM W/559 PSI. CHART WITNESSED AND SIGNED BY BRYCE HAMMOND W/JICARILLA BLM, PU SCRAPER BIT TIH TO 3500', TOH LD SCRAPER, PU RH FOR RBP AND TIH, TAG SAND AND CIRC. CLEAN OFF TOP OF RBP, CIRCULATED HOLE FOR 45 MINS. ALL RETURNS CLEAR OF SAND, CEMENT. SECURED WELL. SDFN.

10/11/2017: RU TRK TO PUMP AND ROLL HOLE W/PRODUCED WATER. RELEASE RBP TOH LD/RBP. TIH W/ PROD. STRING, 2 3/8" EUE J55 4.7# . EOT @ 5143.21'. LANDED TBG. WITH TBG/HANGER. SECURED WELL AND SDFN.

10/12/2017: DROPPED SV, LOADED TBG, TESTED TO 700 PSI. SWAB TBG. NDBOP, NUWH, LEFT WELL SHUT IN. RD/MOVE. FINAL REPORT.

SEE ATTACHED MIT CHART.

