Form 3160-5 \*(December 1989)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED dget Bureau No. 1004-0135 pires: September 30, 1990

SUNDRY NOTICES	A BITES	DEBODEC	ONLAND	TTC
SUNDRY NUTTURE	AND	REPURIS	UNWE	LLC

Lease Designation and Serial No.

NM-03356

7. If Unit or CA, Agmt. Design.:  SUBMIT IN TRIPLICATE  0/0 Farming on, NM Northeast Blanco Unit		Do not			=	eentry to a different res	ervoir. NOV 29 A	6. If Indian	n, Allottee or Ti	ribe Name
SUBMIT IN TRIPLICATE  Other Ot			Use	"APPLICATION F	OR PERMIT" IC	•		7 If Unit o	or CA Agmt D	Design :
1. Type of Well:   Gil Well   gas well X   other   S. Well Name and No.:			S	UBMIT IN TRI	PLICATE	070	Farmingto	n, NM	Northeast B	Blanco Unit
3. Address of Operator:  4. Location of Well: (Footage, Sec., T., R., M., or Survey Description)  5. DEC 2002  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.390' FNL, 1030' FWL - Section 15, 13 N., R. S. DV.  1.410' FYE OF SUBMISSION  1.500' Adamson 15 N., R. S. DV.  1.500' Adamson 1	1. Type of V	Well:	oil well	gas	vell X			E .		
4. Location of Well: (Footage, Sec., T., R., M., or Survey Description)  1390' FNL, 1030' FWL - Section 15, VIN. 1030' FWL - Section	2. Name of	Operator:	D	evon Energy Proc	luction Co., L.F	2 18 15 16 77	<u></u>		N.E.B.U. 77	Α
1390' FNL, 1030' FWL - Section 15, 21N, RWS DV.  12. CHECK APPROPRIATE BOX(s) TO INDICATE STURE OF NOTICE SEPORT, OR OTHER DATA  TYPE OF SUBMISSION  Notice of Intent  Abandonment  Recompletion  Notice of Intent  Abandonment Notice  Altering Casing  Conversion to Injection  Altering Casing  Conversion to Injection  Water Shut-Off  Altering Casing Conversion to Injection  Water Shut-Off  Conversion to Injection Well Completion or Recompletion on Well Completion or Recompletion or Well Completion or Recompletion or Becompletion or Well Completion or Recompletion or Second and True vertical depths for all markers and zones pertinent to this work, 1'  A cast from bridge plug was set over the DK perforations and remedial coment work was performed to sufficiently cover the MV interval. Two say holes were perforated @ \$210'. Circulation was established to surface wid 2's KCI. Sig will coment and retainer. Pressure test Cog and Sign of the Completion or Popp. Tailed in will stilb Sign Op DC I class the formed coment or 2's, 8' (cl. 19). Tailed in will still be surface will be surfaced be surfaced and the desire of the surface will be surfaced be surfaced by the surface will be surfaced by the surface will be surfaced by the surfaced by	3. Address	of Operator:	3	300 N. Butler Ave	nue, Suite 211,	Farmington, NM 87	1000	9. API We	ll No.:	
1390' FNL, 1030' FWL - Section 15, TJIN, RUST, 3.  12. CHECK APPROPRIATE BOX(6) TO INDICATE STURE OF NOTIFICE PEPORT, OR OTHER DATA  TYPE OF SUBMISSION  Notice of Intent  Abandonment  Abandonment  Change of Plans  Recompletion  Recompletion  Non-Routine Fracturing  Casing Repair  Water Shut-Off  Altering Casing  Conversion to Injection  (Note: Report results of multiple completion on Well Completion on Recompletion to Note: Meas Verde Completion on (Note: Report results of multiple completion on Well Completion on Well Completion on 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 any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)  101/12002  We commenced to complete the MV interval on the 77A.  A cast iron hotige plug yeas set over the IKV perforations and remedial cement work was performed to sufficiently cover the MV interval. Two ear hotes were perforated by \$2.01. Circulation 50 comment bible to pil. Drilled out cement and retainer. Pressure test cap, lest false the perforation of \$2.01. Circulation 50 comment bible to pil. Drilled out cement and retainer. Pressure test cap, lest false to a \$100 and to density cement to surface. Pressure test cap, lest false to a \$100 and to density cement to surface. Pressure test cap, lest false to a \$100 and to density cement to surface. Pressure test cap, lest false to a \$100 and to density cement to surface. Pressure test cap, lest false to a \$100 and to density cement to surface. Pressure test cap, lest false to a \$100 and to density cement to surface. Pressure test cap, lest false to a \$100 and to density cement to surface. Pressure test cap, lest false to a \$100 and to density cement to surface. Pressure test cap and so place the perforating system. Breakdown will 300 gai 15% HCL. Broke down @ \$118 ps. Pumped 2455 bib	4. Location	of Well: (Foota	age, Sec., T.,	R., M., or Survey l	Description)	DEC BOOK			30-045-3096	50
12. CHECK APPROPRIATE BOX(s) TO INDICATE STURE OF NUTSIGNATION OF Parish, State:  San Juan, New Mexcio  12. CHECK APPROPRIATE BOX(s) TO INDICATE STURE OF NUTSIGNATION OF THE DATA  TYPE OF SUBMISSION  Notice of Intent  Abandonment  Change of Plans  Recompletion  New Construction  Ne					\[ \sqrt{\oldots}	BECS. 10	젊	10. Field &	& Pool/Explora	tory Area:
12. CHECK APPROPRIATE BOX(s) TO INDICATE ATURE OF NOTHER PORT, OR OTHER DATA  TYPE OF SUBMISSION  Notice of Intent  Abandonment  Abandonment  Recompletion  Recompletion  Plugging Back Non-Routine Fracturing  Casing Repair  Water Shut-Off Altering Casing Conversion to Injection  (Note: Report results of multiple completion on Well Completion on (Note: Report results of multiple completion on Well Completion on (Note: Report results of multiple completion on Well Completion Well on Well Well Well on Well Well Well on Well Well Well on Well Wel				_	$ \infty $					<del></del>
12. CHECK APPROPRIATE BOX(s) TO INDICATE STUTE OF NOTRED REPORT, OR OTHER DATA  TYPE OF SUBMISSION  Notice of Intent  Abandomment Abandomment Change of Plans Recompletion New Construction Note: Repair Water Shut-Off Casing Repair Conversion to Injection Altering Casing Conversion to Injection (Note: Report results of multiple completion on Well Completion or Recompletion Report of Recompletion or Recompletion or Recompletion or Recomp		1	390' FNL	, 1030' FWL - S	ection 15,\T3		· 23	11. County		
Notice of latent  Recompletion  New Construction  New Construction  New Construction  New Construction  New Construction  New Spain  Plugging Back  Non-Routine Fracturing  Casing Repair  Water Shut-Off  Altering Casing  Conversion to Injection  (Note: Report results of multiple completion on Well Completion on Recompletion report and Log form)  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 any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  10/1/2002  Work commenced to complete the MV interval on the 77A.  A cast iron bridge plug was set over the DIX perforations and remedial cement wrok was performed to sufficiently cover the MV interval. Two sox holes were perforated @ 25 (10'. Circulated to surface we' 28' K.Cl. Sox we cement retainer @ 5100'. Pumped 57' bibts 50/50 POZ Class H foramed comment w2'8's gel. 0.1% retarder, 0.15% thiotoropic will 1.45 yield, 13 pg (Circulated 50 cement bibts to pl. Diffeled out cement w2's gel. 0.1% retarder, 0.15% thiotoropic will 1.45 yield, 13 pg (Circulated 50 cement bibts to pl. Diffeled out cement w2's gel. 0.1% retarder, 0.15% thiotoropic will 1.45 yield, 130 pg (Circulated 50 cement bibts to pl. Diffeled out cement w2's gel. 0.10 yield out cement and retainer. Pussaure lest csg, accused to 100 yield out cement and retainer. Pussaure lest csg, accused to 100 yield out cement and retainer. Pussaure lest csg, accused to 100 yield out cement and retainer. Pussaure lest csg, accused to 100 yield out cement and retainer. Pussaure lest csg, accused to 100 yield								<u> </u>		lew Mexcio
Notice of Intent    Abandonment	12.	C	HECK APP	ROPRIATE BOX(	) TO INDICAT	ENATURE OF NOT	KEPORT,	OR OTHE	R DATA	
Recompletion New Construction  X Subsequent Report Plugging Back Non-Routine Fracturing  Casing Repair Water Shut-Off  Casing Repair Water Shut-Off  Casing Repair Conversion to Injection  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 any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  10/1/2002 Work commenced to complete the MV interval on the 77A.  A cast iron bridge plug was set over the DK perforations and remedial cement wrok was performed to sufficiently cover the MV interval. Two sqz holes were perforated © 5210°. Circulation was established to surface wide 2% KCl. Sqz w cement retainer @ 5100°. Pumped 57 bbls 50/50 PCi2 Class H foamed cement wide 2% gel, 0.1% retarder, 0.15% thixotropic wid 1.45 yield, 13 ppg foamed to 8 ppg. Tailed in wide 11 bbls 50/50 PCi2 Class H foamed cement wide 2% gel, 0.1% retarder, 0.15% thixotropic wid 1.45 yield, 13 ppg foamed to 8 ppg. Tailed in wide 11 bbls 50/50 PCi2 Class H foamed cement wide 130° and to well and the school of 300° and tow density cement to surface. Pressure test seg and sqz holes to pit. Drilled out cement and retainer. Pressure test seg, set failed Reseage with 15 as Class H comment wide 14 bids celloftake. Yield of 1.18. Drill out cement and retainer. Run GR-CBL-CCL from 6000° to surface. Excell 10/9/202.  10/9/2012 Perforate Point Lookout wide 27 holes from 53/58-5807 willinging a select fire perforating system. Breakdown wide 294 gel 15% HCl. Broke down @ 158 psi. Pumped 2455 bbls 2% KCl 218 psi and 158 psi 20/40 Brady sand at an average psi of 32 BPM and average pressure of 1400 psi. Max psi = 214 psi and 158/9 to 20/40 Brady sand and fracture stimulate Lewis wir 70 Q foamed believed by 140 psi and 140 psi bbls 20/40 Brady sand and fr		TYPE OF SU	BMISSION			La LA LE ULA	TYPE OF A	ACTION		
Plugging Back		N	lotice of Inte	ent		Abandon	ment		_Change of Pla	ans
Casing Repair						Recompl	etion		New Constru	ction
Final Abandonment Notice		X S	ubsequent l	Report		Plugging	Back		Non-Routine	Fracturing
Final Abandonment Notice  Altering Casing Conversion to Injection  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 any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  10/1/2002 Work commenced to complete the MV interval on the 77A.  A cast iron bridge plug was set over the DK perforations and remedial cement wrok was performed to sufficiently cover the MV interval. Two sqz holes were perforated @ 5210°. Circulation was established to surface w/ 2% KCl. Sqz w/ cement retainer @ 5100°. Pumped 57 bbls 50/50 POZ Class H foamed cement w 2% gel 0.1% retarder, 0.15% this/toropic with 1.45 yield, 1.5 pgg. Circulated 50 cement bbls to plt. Drilled out cement and retainer. Pressure test sgg, test failer Re-sqz w/ 175 x Class H cement w/ 114 bblsx celloflake. Yeld of 1.18. Drill out cement and retainer. Run GR-CBL-CCL from 6000° to surface. Excelle bond to 3100° and low density cement to surface. Pressure test csg and sqz holes to 3500 psi for 30 minuties. Good test.  10/8/2002 - Perforate Drill Lookout w/ 27 holes from 5554* - 5560° utilizing a select fire perforating system. Breakdown w/ 294 gal 15% HCl. Broke down@ 931 psi through FKR. RU HES and fracture stimulate Point Lookout. Pumped 1300 gal 15% HCl. Broke down@ 931 psi Perforate Cliffhouse interval w/ 29 holes from 5534* - 5596° utilizing a select fire perforating system. RU HES and fracture stimulate Cliffhouse interval. Perforate Lowis interval w/ 29 holes from 5554* - 5596° utilizing a select fire perforating system. RU HES and fracture stimulate Lewis w/ 70 Q foam. Breakdown w/ 1300 gal 15% HCl. Broke down@ 2269°. Pumped 2455 bbls 2/8 KCl 218,921 bls 20/40 Brady sand, 1,475,00 scf Nitrogen@ average results of 3000. Max psi = 3100 and ISIP = 612 ps						Casing R	epair		- Water Shut-C	off
X Other: Mesa Verde Completion (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 any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  10/1/2002 Work commenced to complete the MV interval on the 77A.  A cast iron bridge plug was set over the DK perforations and remedial cement wrok was performed to sufficiently cover the MV interval. Two sqz holes were perforated @ 5210°. Circulation was established to surface w/ 2% KCl. Sqz w/ cement retainer @ 5100°. Pumped 57 bbls 50/50 POZ Class H foamed cement w/ 2% gel, 0.1% retarder, 0.15% thixtoriopic with 1.45 yield, 13 ppg. Circulated 50 cement bbls to ptl. Drilled out cement and retainer. Pressure test csg. of 10.1% retainer, 0.15% thixtoriopic with 1.45 yield, 13 ppg. Circulated 50 cement bbls to ptl. Drilled out cement and retainer. Pressure test csg. of 10.1% retainer, 10.15% thixtoriopic with 1.45 yield, 13 ppg. Circulated 50 cement bbls to ptl. Drilled out cement and retainer. Pressure test csg. and sqx holes to 3500 psi for 30 minutes. Good test. 10/8/2002 - Perforate Point Lookout w/ 27 holes from 5758-5867 utilizing a select fire perforating system. Breakdown w/ 294 gal 15% HCl. Broke down @ 3158 yes. Perforate Drilled post pressure of 1400 psi. Max psi = 2148 psi and ISIP = 5 psi. Perforate Lewis Interval w/ 18 holes from 4506° - 5194 untilizing a select fire perforating system. RU HES and fracture stimulate Cliffhouse interval. Perforate Lewis Interval w/ 18 holes from 4506° - 5194 untilizing a select fire perforating system. RU HES and fracture stimulate Cliffhouse interval. Perforate Lewis Interval w/ 18 holes from 4506° - 5194 untilizing a select fire perforating system. RU HES and fracture stimulate Lewis w/ 70 Q foam. Persakdown w/ 1300 gal		F	inal Ahando	nment Notice			-		- Conversion to	n Injection
(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 any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  10/1/2002 Work commenced to complete the MV interval on the 77A.  A cast iron bridge plug was set over the DK perforations and remedial cement wrok was performed to sufficiently cover the MV interval. Two sqz holes were perforated @ 5210°. Circulation was established to surface w/ 2% KCI. Sqz w/ cement retainer @ 5100°. Pumped 57 bbls 50/50 POZ Class H foamed cement w/ 2% gel, 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbls 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixo		^					-	rde Comp	-	, injection
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 any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  10/1/2002 Work commenced to complete the MV interval on the 77A.  A cast iron bridge plug was set over the DK perforations and remedial cement wrok was performed to sufficiently cover the MV interval. Two sqz holes were perforated @ 5210°. Circulation was established to surface will 2% kCl. Sqz w/cement retainer @ 5100°. Pumped 57 bbls 50/50 POZ Cleass H foamed cement w/2% gel, 0.1% retarder, 0.15% thixotropic with 1.45 yield, 13 ppg foamed to 9 ppg. Talled in w/8 1 bbls 50/50 POZ H cement w/2% gel, 0.1% retarder, 0.15% thixotropic with 1.45 yield, 13 ppg. Circulated 50 cement bbls to pit. Drilled out cement and retainer. Pressure test csg, test failed Re-sqz w/175 sc Class H cement w/14 bbls xcelloffake. Vield of 1.18. Drill out cement and retainer. Run GR-CBL-CCL form 6000 to surface. Excelled bond to 3100° and low density cement to surface. Pressure test csg and sqz holes to 3500 psi for 30 minutes. Good test.  10/8/2002 Perforate Drilled Lookout w/2 Tholes from 5758-5867 billing a select fire perforating system. Breakdown w/2 294 gal 15% HCl. Broke down @ 1158 psi. Pumped 2455 bbls 2% KCl and 99,046 bbs 20/40 Brady sand at an average rate of 180 psi. Max psi = 3100 and ISIP = 612 psi. Perforate Cliffhouse interval w/2 8 holes from 5534 - 5589 dillicing a select fire perforating system. RU HES and fracture stimulate Cliffhouse interval w/2 8 holes from 5534 - 5589 dillicing a select fire perforating system. RU HES and fracture stimulate Cliffhouse interval w/2 8 holes from 5534 - 5589 dillicing a select fire perforating system. RU HES and fracture stimulate Lewis w/70 Q foam. Breakdown w/1300 gal 15% HCl. Broke down @ 2159 Fumped a total of 848 bbl										ı Well
13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  10/1/2002 Work commenced to complete the MV interval on the 77A.  A cast iron bridge plug was set over the DK perforations and remedial cement wrok was performed to sufficiently cover the MV interval. Two sqz holes were perforated @ 5210'. Circulation was established to surface w/ 2% KCI. Sqz w/ cement retainer @ 5100'. Pumped 57 bbis 50/50 POZ class H foamed cement w/ 2% gel, 0.1% retarder, 0.15% thixotropic with 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic with 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic with 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder, 0.15% thixotropic w/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder v/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder v/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder v/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder v/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/50 POZ H cement w/ 2% gel 0.1% retarder v/ 1.45 yield, 13 ppg foamed to 9 ppg. Tailed in w/ 81 bbis 50/						•	-	•	•	
Signed: CHUCK FREIER Title: Company Representative Date: 11/27/2002  (This space for Federal of State office use)  Approved by Title Date Conditions of approval, if any:	10/8/2002 - 10/9/02	A cast iron brivere perforate foamed ceme 0.1% retarder Re-sqz w/ 17: bond to 3100 Perforate Pointhrough PKR. average rate Perforate Cliff Breakdown waverage psi operforate Lew Breakdown waverage rate The frac fluids	idge plug wa ed @ 5210'. int w/ 2% gel int w/ 2% gel 5 sx Class H and low der nt Lookout w RU HES ar of 52 BPM a fhouse interv / 1300 gal 1! is interval w / 1300 gal 1! of 39 BPM, a s were produ	cis set over the DK p Circulation was es I, 0.1% retarder, 0.0 otropic with 1.45 yis is cement w/ 1/4 lb/s sity cement to surful if 27 holes from 57 nd fracture stimulating and average pressural w/ 29 holes from 50 Max psi = 3100 and 1/18 holes from 450 5% HCl. Broke dow average pressure of sized back from 10/9	perforations and stablished to surified, 13 ppg. Circk celloflake. Yie ace. Pressure to 58'-5867' utilizing Point Lookout. Te of 1400 psi. If 15534' - 5596' u wn @ 1158 psi. If ISIP = 612 psi. If 2900. Max psi 1902-10/19/02.	face w/ 2% KCI. Sqz w/ 1.45 yield, 13 ppg foculated 50 cement bbleeld of 1.18. Drill out celest csg and sqz holes ig a select fire perforat. Pumped 1300 gal 15 Max psi = 2148 psi and tillizing a select fire per Pumped 2455 bbls 2% ting a select fire performped a total of 848 bblie = 2973 and ISIP = 20 Tbg was landed @ 580	w/ cement retain amed to 9 ppgs to pit. Drilled ament and retain to 3500 psi for ing system. But SHCI, 2312 but ISIP = 5 psi. forating system at KCI and 99,00 atting system. Is 2% KCI, 21, 84 psi.	ner @ 5100 j. Tailed in vout cement iner. Run G 30 minutes reakdown with bls 2% KCI in. RU HES 46 lbs 20/40 RU HES and 8,921 bls 20	'. Pumped 57 I w/ 81 bbls 50/5 and retainer. I R-CBL-CCL fro . Good test. / 294 gal 15% I and 105,855 Ib. and fracture sti I Brady sand @ d fracture stimu /40 Brady sand	bbls 50/50 POZ Class H 0 POZ H cement w/ 2% Pressure test csg, test f om 6000' to surface. Ex HCl. Broke down @ 93' s 20/40 Brady sand at a imulate Cliffhouse intended average rate of 51 BPI allate Lewis w/ 70 Q foar f, 1,475,00 scf Nitrogen
(This space for Federal of State office use)  Approved by Title Date  Conditions of approval, if any:	14. I hereby	y certify that the	foregoing is	true and correct.					<del>,</del> .	
Approved by Title Date Date DEC 1 3 2002	Signed:		P-dur	CHUC	K FREIER	Title: Compan	y Representat	ive	Date:	11/27/2002
Conditions of approval, if any:		(This space for	or Federal of	State office use)						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Conditions of approval, if any:					Title			Date	- • !	
		Conditions of	approval, if	any:		,			DE	EC 1 3 2002
THE LATER A SECTION WILL THOUGHT I GOVERN TOP ONLY REPROPERSIONAL AND CONTRACT AND ASSOCIATION OF THE SECTION O	Title 19 II	C.C. Cardina 10	001	i			1 .			
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