

Submit 1 Copy To Appropriate District Office

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-103
Revised July 18, 2013

HOBBS OCD
MAY 15 2017
RECEIVED

WELL API NO.	30-025-43475
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	317100
7. Lease Name or Unit Agreement Name	Big Cat 16 State VDW
8. Well Number	1
9. OGRID Number	6137
10. Pool name or Wildcat	98210 Stratagraphic
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	3683

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
Devon Energy Prod Co Lp

3. Address of Operator
333 W. Sheridan Ave
Oklahoma City, OK 73102

4. Well Location
Unit Letter L : 2110 feet from the South line and 200 feet from the West line
Section 16 Township 23S Range 32E NMPM County Lea

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: Set a temporary drillable cast iron bridge plug. <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

As per Maxey Brown and Mark Whitaker via verbal plan, we set a temporary drillable cast iron bridge plug. This was done so we can come back and complete a lateral in another zone. Please see the attached procedure.

Spud Date: 12/08/2016

Rig Release Date: 1/19/2017

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE _____ TITLE Regulatory Prof DATE 5/15/2017

Type or print name Chance Bland E-mail address: Chance.Bland@dvn.com PHONE: 405-228-8593

APPROVED BY: Maxey Brown TITLE AO/II DATE 5/17/2017
Conditions of Approval (if any)

MB

Cement Plug on Top of Fish

1. TIH with open ended drill pipe.
2. Spot 300' cement plug at ~7,300' MD / TVD as per SLB procedure. Stop 10 BBL short of calculated displacement and let cement fall out of DP.
 - a. Spot cement 10'-15' from the top of the fish. The exact depth for the plug may change depending on how much fish we are able to get out of the hole.
 - b. After cementing operations are complete, TOOH 5 stands and circulate 2 bottoms up. Drop foam ball to wipe pipe.
3. TOOH to P/U TAM open hole packer.

Run Open Hole Packer

1. P/U open hole packer as per TAM procedure See Appendix A for TAM packer BHA.
2. TIH with open hole packer.
 - a. Use extreme caution when running in the hole with the TAM packer (especially in open hole). If any tight spots are encountered, immediately stop TIH and contact superintendent / engineer. Discuss max trip speed with TAM tech on location. Do not exceed 50 fpm. Since the circulating tool is above the packer, we will have limited ability to use circulation to free the tool if we become stuck.
3. Set packer as per TAM procedure (See Appendix B). Set the top of the packer at 6,410' MD/TVD.
 - a. Refer to Appendix C for caliper log of this set depth. Discuss with TAM tech on location. Contact superintendent / engineer if there are any issues with this depth after reviewing the caliper log with TAM tech on location.

Cement on Top of Packer

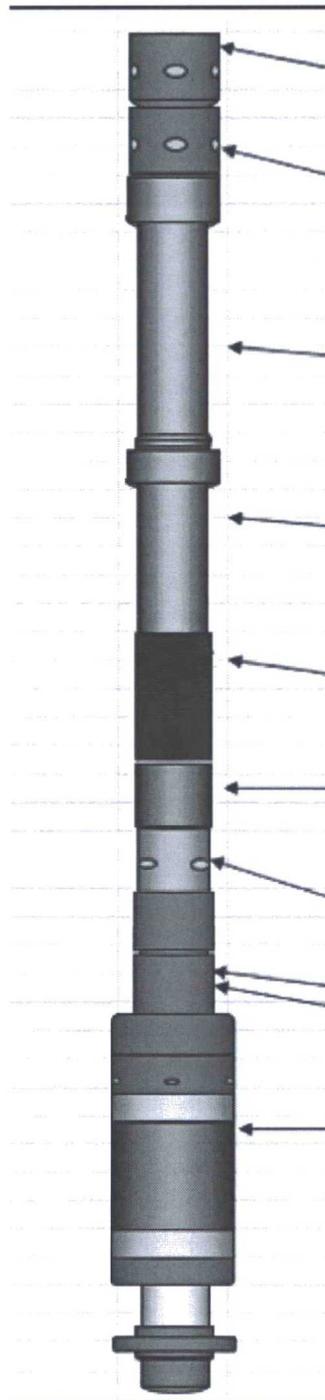
1. Once packer has been set, circulate 2 bottoms up to fill the hole and condition mud. Ensure that hole is clean.
2. Spot 300' cement balanced plug 5' above TAM plug as per SLB procedure
 - a. Pump cement
 - b. TOOH 10 stands and circulate 2 bottoms up. Do not drop foam ball to wipe drill pipe. Since we have the TAM circulating tools in the string, we will not be able to drop a foam ball through the tool.
3. TOOH and position bit 100' below intermediate casing shoe (4,800')
4. Displace intermediate casing with packer fluid
 - a. See Appendix D for packer fluid recipe
5. TOOH to surface. Fill the backside with packer fluid so that the entire intermediate casing string is full with packer fluid.
 - a. L/D drill pipe as we are TOOH

Set Cast Iron Bridge Plug

1. Rig up wireline tools.
 - a. We will be using Renegade to set this CIBP. Ensure that they have a collar locator tool with them to set the CIBP. Do not set CIBP on a casing collar.
2. Run and set CIBP. Set the CIBP at 4,620' MD / TVD. Ensure that the CIBP is rated to be ran in 13-3/8" 72 PPF casing.
3. See Appendix E for CIBP product information.

Appendix

A. TAM BHA



Description	OD	Length
Bar Ball Sub (optional)	6.13"	0.85
Fill Sub	6.13"	0.75
5" DP, Stand	5"	
5" Pup Joint	5"	6.6
XO, 4 1/2" IF Box X 3 1/2" IF Pin	6.50"	2.67
Hydraulic Release R. Tool	4.75"	1.25
Hydraulic Release Sub		1.15
Rotate Release R. Tool	5.06"	0.88
Rotate Release Sub	5.06"	
TAMPLUG	11"	8.15
TOTAL TAM BHA LENGTH		22.3

*These are generic lengths that may vary depending on the assembly / machining of the tool that will be used. Defer to the BHA sheet that will be brought out on location with TAM tech.

B. TAM Running Procedure



TAM INTERNATIONAL

TAMPLUG Running Procedure

OBJECTIVE: Set TAMPLUG in open hole as a base for cement. Spot cement on top.

EQUIPMENT ON LOCATION:

ITEM	QTY	PART NUMBER	DESCRIPTION
10	2	506-TP-12192005	5 1/16" TAMPLUG with 11-IE-12 Inflation Element with TAMPLUG Rotate Release sub, Non-Safelock, Opening Valve pinned @ 1527 psi (11080105) & Closing Valve Pinned @ 1916 psi (11080107) Circ. ports closed, Solid Guide Plug (425-PW-76) & 11.25" Gage Ring (700-TJ-27B) 3 1/2" IF X Solid Guide Plug
20	2	475-HR-11908000	475 Hydraulic Release Running Tool w/ Release Sub, 10 Pins for 3450 psi (345 psi/pin) No Ball release and 1200 psi (120 psi/pin), 1 7/8" Stainless Steel Ball, Blank Benoil Discs Installed, 3 1/2" IF Box X Pin (1-7/8" ball not required)
30	2	613-FS-01	6 1/8" Fill Sub, 1 7/8" Ball (188-SB-11)
40	4	188-SB-11	1 7/8" Setting Ball, Steel, (Fill Sub)
50	2	PJ0450G105IF7	Pup Joint Handling Sub, 4 1/2" IF Box X Pin (Midland)
60	2	0450IB0350IPP11	Crossover, 4 1/2" IF Box X 3 1/2" IF Pin (Midland)
70	2	900238200	G1 Collapsible Isolation Device (Foam Pig) (Midland)
80	6	425-SS-25	Shear Pins
90	6	2HP5ON-SS	Parker Plug, #2



TAM INTERNATIONAL

PRE-JOB PROCEDURE:

- A. Upon arrival at the rig site, immediately check all tools on location against the shipping documents and check the tool conditions to assure that no damage has occurred during transportation to the rig site.
- B. Insure that all TAM equipment is compatible with other equipment on location, and that all required handling tools are on location.
- C. Discuss job with company personnel and all personnel involved in operation.
- D. Confirm minimum restriction the TAMPLUG must pass thru.
- E. Caliper and drift all crossovers, nipples, tubing, etc. with 1-7/8" setting ball to ensure ball will pass through all ID's. Drift work string with appropriate size drift.
- F. Confirm type fluid and fluid level of the well prior to running any TAM equipment.
- G. Ensure all rig up or rigging of equipment involved in operations is properly rigged up and suited for operations. Any deviation from SOP operations involving equipment or procedures needs to be discuss with all personnel involve in operations.
- H. Verify if Loss Circulation Material (LCM) or any solids exist in the well fluid, if so clean well fluid will be need to be spotted across the packer for inflation of the packer to prevent plugging of the deflation ports.
- I. Lightly dope pin end only on all connections.
- J. In addition to dial gauges a recording system should be installed on or to the Pump Unit to record "pump pressure, pump rate, volume pumped". TAM engineer to obtain a copy of data upon completion of Packer Setting and or the complete job.
- K. The following operating procedures should be followed for running and activating the Packer assembly.
- L. Any deviation from this procedure, call TAM office immediately to discuss. A Management of Change form may need to be completed.



TAM INTERNATIONAL

RUNNING PROCEDURE:

1. Prior to running in the hole, break the right hand release and make back up firmly without over-torquing. The torque value of the right hand release sub should be set based on the work string thread and the ability to transmit torque to the tool at setting depth.
2. Make up the TAM BHA to the work string. BHA consisting of (Bottom To Top); TAMPLUG w/ circulation ports closed, 4.75 Hydraulic Release, 4-1/2" IF box X 3-1/2" IF pin Crossover, 4-1/2" IF Pup Joint/Handling Sub. Set assembly in the slips. Hold a good backup and do not allow the work string to rotate while running in the hole. Right hand rotation could cause the release mechanism to activate.

NOTE: DO NOT APPLY SQUEEZE TO THE ELEMENT WITH STRAPS OR HOIST. VERIFY THE CLOSING VALVE IS NOT SHEARED.

3. Elevate and flush out a minimum of 3 joints of pipe on the deck and make up to the BHA, fill with clean water and install the foam isolation plug and the 613-FS-01 Fill Sub.
4. Run in hole at a moderate speed (60'/min). Make sure to slow down and take caution while passing through known tight spots (2000' thru 2500'). Slow to a stop and set slips lightly. Do not slam on the brakes and jar the pipe down. Sudden stops could cause a hammer effect with the fluid in the work string and prematurely shear the Safelok opening valve.
5. Run in hole to setting depth of 6,400', establish up and down weight and record.
6. Make up Pump Line to Work String and pressure test Line to 4,000 psi minimum.
7. Slowly pump down the work string enough to ensure the well is full.
8. Hang the work string off of the elevators and remove the slips. Do not set the work string in the slips while inflating the packer.
9. Caliper and drop 1-7/8" Setting Ball down the Work String. Allow sufficient time for the Ball to fall and seat on the fill sub (5 minutes per 1000ft).
10. With Ball on seat slowly engage the Pump at a 1/4 to 1/2 bpm and pressure up to 500 psi, hold for 30 seconds and continue pumping at 300 psi increments until opening valve shear is observed (1527 psi +/- 15%). Monitor the pressure bleed down until it stabilizes.

NOTE: This is a non-locking safe lock valve. Pressure loss to below 300 psi is acceptable.



TAM INTERNATIONAL

11. After pressure stabilizes for 3 minutes ensure the element has a minimum of 500 psi inflation pressure. Perform a 3000 lb. push/pull test to confirm the TAMPLUG is inflated and anchoring.
12. Increase pressure in 300 psi increments with 10 minute holds until the closing valve shears, 2230 psi (1916 psi +/-15%).
13. Once the closing valve has sheared, bleed off the work string pressure and wait 10 minutes. Perform a 3000 lb. push pull test to confirm inflation pressure has been locked into the packer.
14. Apply 2000 lbs. tension at the tool, torque work string to the right and break left-hand connection at the release sub. Rotate a minimum of 8 turns at the tool to release. Raise the work string to verify release.
15. Once released from TAMPLUG P/U to desired depth above the TAMPLUG begin cement program.
16. Upon completion of pumping the cement POOH.

Contingencies:

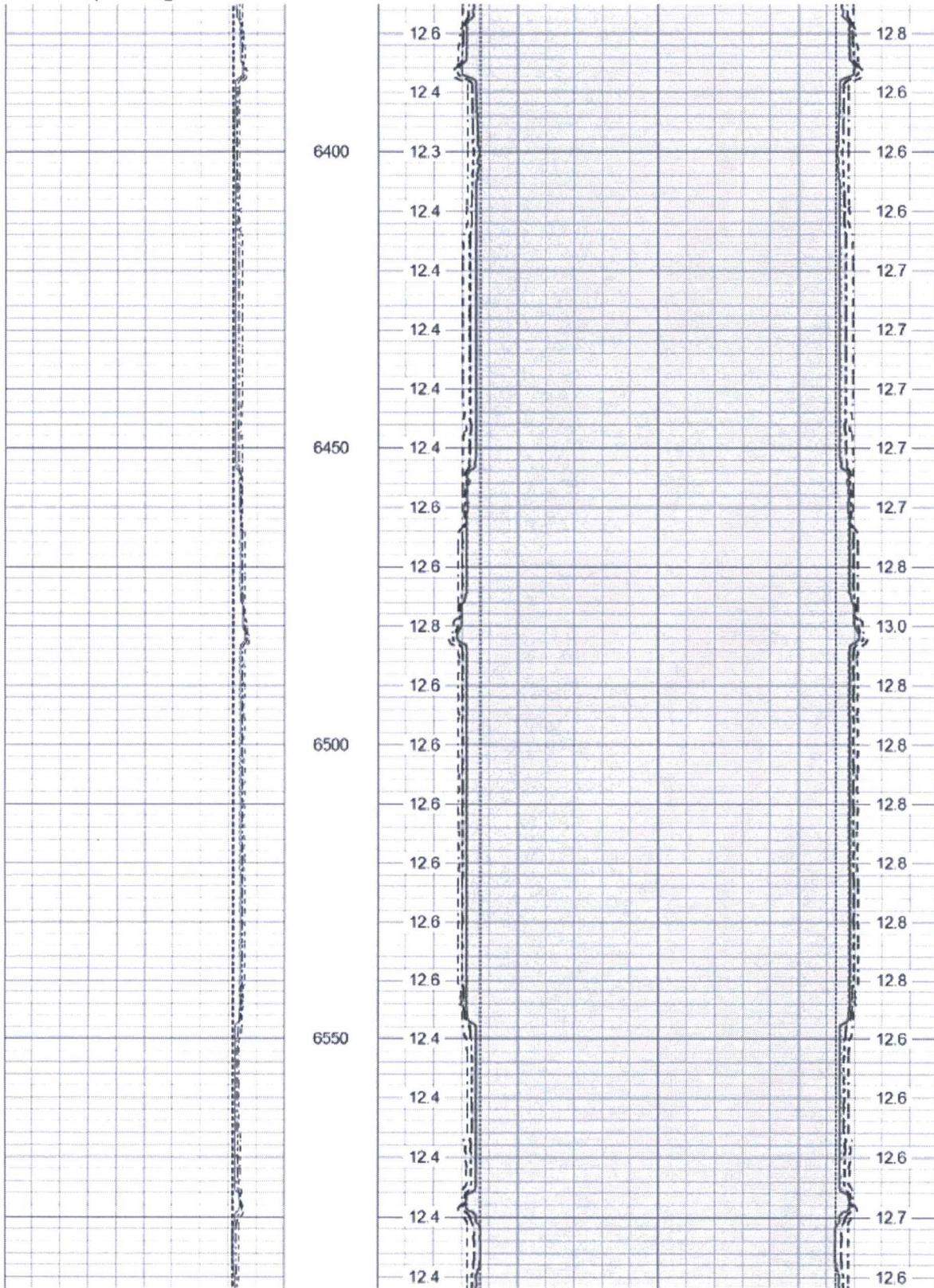
- A. If unable to pass thru any restriction in Surface or Well Bore I.D. before the TAMPLUG has been inflated.
 - a. POOH and visually inspect BHA.
- B. If the TAMPLUG fails to maintain element inflation after Step 11.
 - a. Repeat Steps 8 thru 11 raising the closing pressure in step 10 to 2800 psi.
 - b. If the TAMPLUG again fails to maintain pressure POOH and run backup tool.
- C. If the well loses fluid before or while running in the hole it will be necessary to stage up and set the tool by calculating and pumping the volume of fluid necessary to reach the 300 psi required per stage until shearing the opening valve pin. After setting the tool, and before releasing from the tool, the annulus should be filled to the level of the fluid in the tubing.



TAM INTERNATIONAL

- D. If you are unable to transmit torque down to activate the release sub it will be necessary to use the secondary release, the 475-HR.
 - a. With the work string in neutral position increase work string pressure slowly to 3950 psi (3450 + 15%) or until a pressure loss is seen indicating the HR has activated and released from the TAMPLUG. Continue with Step 15.

C. Caliper Log



D. Nova Packer Fluid Recommendation



Cat 16 State VDW #1 Packer Fluid Recommendation

Product Name	Function	Concentration	Treatment for 703 barrels (rounded up)	# of 5 Gallon Pails Required (rounded up)	Cost
RHIB PFC	Corrosion Amine and Oxygen Scavenger	10 gallons/100 barrels	71 gallons	15	[REDACTED]
AQUACAR GA 25	Biocide	5 gallons/100 barrels	36 gallons	8	[REDACTED]
				Total Cost	[REDACTED]

E. Cast Iron Bridge Plug – Product Information

Big Boy Bridge Plug

Wireline Set

The Big Boy Bridge Plug has proven to be a product that can be depended on. It has excellent running characteristics and secure sets. The plug can be set on different types of wireline pressure setting tools.

The Big Boy is designed for rapid drill-out while maintaining sufficient strength during the set. This plug sustains high pressures and temperatures.

FEATURES:

- Electric wireline set
- Drillable
- Cast iron construction
- One piece slips - hardened to depth of wicker only
- Sets in any grade casing including P-110
- Form-fitting metal back-ups prevent rubber extrusion
- For temporary or permanent service
- Ratcheting lock ring holds setting force

SPECIFICATIONS

CASING		PLUG		SETTING RANGE		SETTING TOOL	
OD	WT. (LBS/FT)	PART NO.	O.D.	MIN.	MAX.	BAKER	GO
2 3/8	3.3 - 5.9	000-1710-002	1.71	1.867	2.107	05	
2 3/8	3.3 - 5.9	000-1710-000	1.71	1.867	2.107		1 11/16
2 7/8	6.4 - 6.5	000-2100-002	2.10	2.280	2.563	05	
2 7/8	6.4 - 6.5	000-2100-000	2.10	2.280	2.563		1 11/16
2 7/8	6.4 - 6.5	000-2100-000	2.10	2.280	2.563		2 1/8
3 1/2	5.7 - 10.2	000-2750-002	2.75	2.867	3.258	05	
3 1/2	5.7 - 10.2	000-2750-000	2.75	2.867	3.258	10	
3 1/2	5.7 - 10.2	000-2750-000	2.75	2.867	3.258		1 11/16
3 1/2	5.7 - 10.2	000-2750-000	2.75	2.867	3.258		2 1/8
4	5.6 - 14	000-3120-002	3.12	3.340	3.732	10	2 1/8
4 1/2	9.5 - 16.6	000-3500-002	3.50	3.826	4.090	10	3 1/2
4 1/2	9.5 - 13.5	000-3710-002	3.71	3.920	4.560	10	3 1/2
5	11.5 - 21	000-3710-002	3.71	3.920	4.560	10	3 1/2
5 1/2	13 - 25	000-4240-002	4.24	4.580	5.047	20	3 1/2
5 3/4	22.5 - 25.2	000-4340-002	4.24	4.580	5.047	20	3 1/2
6	14 - 26	000-4750-002	4.75	5.140	5.595	20	3 1/2
6 3/8	34	000-4750-002	4.75	5.140	5.595	20	3 1/2
6	10.5 - 12	000-5340-002	5.34	5.595	6.366	20	3 1/2
6 5/8	17 - 34	000-5340-002	5.34	5.595	6.366	20	3 1/2
7	23 - 40	000-5340-002	5.34	5.595	6.366	20	3 1/2
6 5/8	17 - 22	000-5610-002	5.61	5.989	6.655	20	3 1/2
7	17 - 35	000-5610-002	5.61	5.989	6.655	20	3 1/2
7 5/8	20 - 39	000-6090-002	6.09	6.625	7.263	20	3 1/2
8 5/8	24 - 49	000-6960-002	6.96	7.511	8.248	20	3 1/2
9 5/8	29.3 - 53.5	000-7710-002	7.71	8.435	9.063	20	3 1/2
10 3/4	54 - 81	000-8710-002	8.71	9.250	9.784	20	3 1/2
10 3/4	32.7 - 51	000-9500-002	9.50	9.850	11.150	20	3 1/2
11 3/4	38 - 60	000-9500-002	9.50	9.850	11.150	20	3 1/2
13 3/8	77 - 102	000-1156-002	11.56	11.633	12.464	20	3 1/2
13 3/8	48 - 72	000-1200-002	12.00	12.347	12.715	20	3 1/2
16	65 - 109	000-1425-002	14.25	14.688	15.250	20	3 1/2
18 5/8	76 - 96.5	000-1725-002	17.25	17.655	18.730	20	3 1/2
20	133 - 169	000-1725-002	17.25	17.655	18.730	20	3 1/2



This illustration does not reflect all sizes

Big Cat 16 Stated VDW 1

Temporary Abandon Schematic



Big Cat 16 State

